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A COLLECTIVE INDEX

OF THE

TRANSACTIONS, PROCEEDINGS
AND ABSTRACTS

OF

THE CHEMICAL SOCIETY

1883—1892

46465-
99

COMPILED

BY

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Index

1883-92

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PREFACE.

THIS Index has been compiled under the direction of a Committee appointed by the Council of the Chemical Society, consisting of the Treasurer (Chairman), the Secretaries, the Editors, Dr. Forster Morley, Mr. J. W. Rodger, and Dr. Palmer Wynne. The actual execution of the work was entrusted to Mrs. Dougal, who has been assisted at various times by Mrs. Guthrie, Miss Neale, B.Sc., Miss Green, Miss Morfee, Miss Sharpe, and Mr. D. A. Gracey.

The Committee are indebted for assistance, and for advice as to the arrangement of special subject matter, to Captain Abney, Mr. Michael Carteighe, Mr. Thiselton-Dyer, Mr. Lazarus Fletcher, Professor Percy Frankland, Mr. A. J. Green, Dr. Halliburton, Professor Hummel, Professor Japp, Professor Meldola, Dr. Morris, Dr. D. H. Scott, Professor Tilden, Mr. Tutton, Dr. J. A. Voelcker, Dr. Walker, and Professor Warington. They desire especially to thank Dr. Forster Morley for the great care with which he has read and corrected the whole of the proof-sheets, and for the many valuable suggestions he has made as the compilation was passing through the press.

The work is divided into two main parts: (1) an Index of Authors arranged alphabetically, with the titles of their respective papers in chronological order; and (2) an Index of Subjects.

The general arrangement of each part is self-evident, and calls therefore for very little explanation. With a view to the more certain identification of authors, care has been taken to give their names in full whenever possible. In some instances, however, even the full name has not sufficed, and it has been necessary, as a means of further identification, to add the name of the town or place with which the author is connected. Thus we have Thomas Andrews of Belfast and Thomas Andrews of Sheffield; Hermann Müller of Hersfeld, Hermann Müller of Munich, and Hermann Müller of Thurgau. In the case of Russian authors, whose papers for the

most part reach the Society's publications through German sources, the advice of Professor Menschutkin and Dr. Lewkowitsch has been followed in employing the German system of transliteration, as more likely to lead to uniformity of spelling.

Errors in the names of authors found in the Annual Indexes, and discovered in the course of compiling the Collective Index of Authors, were of course rectified before that section of the work was passed for press; other errors detected subsequently when arranging the Subject-Index are given in a separate list on p. vii. A few papers were found to have been omitted from the Annual Indexes, and hence are not given in their proper place in the Collective Index: a list of these "Additional Entries" will be found also on p. vii. Errors of transcription both in the Annual and in the Collective Indexes when detected have also been corrected.

After careful consideration the Committee decided that the Index of Subjects should be essentially, and in the main, alphabetical, but that whenever practicable the substances should also be alphabetically arranged under certain well-defined main groups, *e.g.* alkaloids, carbohydrates, glucosides, terpenes, etc. It was further decided that Agricultural Chemistry, which constitutes a large and to some extent an independent section, should be placed apart.

The Collective Index will be found to differ in many particulars from the Annual Indexes upon which it is based. This was inevitable, as in the earlier Annual Indexes especially, no consistent method of arrangement was followed. Changes of nomenclature were necessarily frequent, and although special care has been exercised that in the Collective Index the same substance should not be entered under different names, it is possible that a few instances of synonyms may have escaped detection. Entries omitted in the subject-portion of the Annual Indexes, discovered in the preparation of the Collective Index, have been duly inserted; others discovered subsequently when the separate sections had been printed off are given on p. ix. In very many cases only the title of a paper appears in the Annual Indexes, and it has been necessary to give supplementary entries as more accurately descriptive of its contents. Hence a large number of additional entries have been made in the Collective Index during its compilation; others of which the desirability was seen later, but which could not be added at the proper time, are given on p. x *et seq.* The list also includes alternative names and double entries omitted from the

Collective Index. Clerical and printer's errors which had escaped detection when reading the proofs have, when discovered, been rectified.

In all cases where these have been definitely ascertained position numbers have been given. The sequence of radicles in the name of a substance, and the nomenclature of acidic and aromatic radicles have been arranged in a more systematic manner than hitherto, and except in cases where the "trivial" name was judged to be too well established to be altered, the name which seemed best to express the constitution of the substance has been preferred. Alternative names have, however, been given, with, of course, cross references. Matters relating to inorganic salts will be found under the name of the particular metal: thus, ferrous sulphate will be found under Iron. In the case of organic salts, where the acid is as a rule the distinctive or significant substance, it has been deemed more convenient to place the entries under the name of the acid: thus barium lactate will be found under Lactic acid. Whenever a prefix, such as *ortho*, *meta*, *para*, *iso*, *secondary*, *tertiary*, *mono*, *di* and *tri*, etc., is not part of the alphabetical arrangement, it is printed in italics.

T. E. T.

ABBREVIATIONS.

T. = Transactions.

P. = Proceedings.

A. = Abstracts.

o = ortho.

m = meta.

p = para.

n = normal.

prim. = primary.

sec. = secondary.

tert. = tertiary.

ψ = pseudo.

d = dextro.

l = laevo.

i = inactive.

s = symmetrical.

as = unsymmetrical.

b.p. = boiling point.

m.p. = melting point.

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INDEX OF AUTHORS.

ADDITIONAL ENTRIES.

- Capus**, the sorghum sugar industry in the United States, 1885, A., 1273.
Johnson, *George Stillingfleet*, magnesia containing rare earths, 1886, A., 980.
Meissl, *Emerich*, and *Friedrich Strohmer*, formation of fat from carbohydrates in animals, 1884, A., 912.
Meyer, *Victor*, remarks on Bonz's paper on the bromination of α - and β -thiophenic acids, 1885, A., 1207.
Niederist, *Gustav*, Reichenbach's picamar, 1883, A., 1004.
Rospendowski, *W.*, artificial blue colours, 1884, A., 1449.
Vibrans, influence of manuring on the composition of potatoes, 1883, A., 882.
Weiske, *Hugo*, and *Bernhard Schulze*, influence of certain amides on the animal organism, 1885, A., 409.

CORRECTIONS.

- Angebilis**, *should be Angelbis*.
Anrep, *Vasilius Kron*, *should be Anrep, Vasilius von*.
Austen, *Peter Townsend*, and *George B. Hurff*, *delete* 1885, A., 512.
Baeyer, *Adolf von*, constitution of benzene, 1887, A., 362, *add* 1887, A., 370.
Baur, *R.*, estimation of fatty acids as fats, *should be* estimation of fatty acids in soaps.
Becker, *George E.*, *should be Becker, George F.*
Behr, *Arno*, *See Friedrich Soxhlet, should be See Franz Soxhlet*.
Ben Sande, *Alfredo*, *should be Ben Saude, Alfredo*.
Borelli, *S.*, *should be Borrelli, S.*
Brown, *Horace*, *should be Brown, Horace T.*
Brunner, *Edward*, and *Theodor Curtius*, action of ethyl diazoacetate on aromatic hydrocarbons, 1885, A., 207, *should be* 1885, A., 1207.
Chanlaroff, *Mochsin Bey*, *should be Chanlaroff, Mochsin Bey*, and *add* butyrolactone and α -ethylbutyrolactone, 1885, A., 374.
Chrutschoff, *K. v.*, new type of pyroxene, 1886, A., 776, *add* 1886, A., 990.
Claus, *Adolph*, and *Carl Wenzlik*, *should be Carl Wenzlick*.
Cook, *Ernest H.*, detection and estimation of iodine, 1885, T., 47, *should be* 1885, T., 471.
Degener, *Paul* (and others), separation of sugar from molasses, 1884, A., 447, *should be* 1884, A., 1447.
Divers, *Edward*, constitution of the fulminates, *add* 1884, T., 19.
Dunstan, *Wendham Rowland*, and *Edmund James Woolley*, *should be Edmund James Woolley*.
Dupré, *August*, battery with two liquids, 1885, A., 853, *should be Dupré, Anatole*.

Eder, Josef Maria, behaviour of the haloid compounds of silver to the solar spectrum, 1885, A., 703, *add* 1885, A., 936.

Ellenberger, Wilhelm, and **Victor Hofmeister**, the digestive fluids and digestion of the horse, 1884, A., 472, *add* 1884, A., 92.

Erdmann, Hugo, and **Richard Kirchhoff**, *should be Richard Kirchhoff*.

Farbaky, Stefan. See **Stefan Schenck**, *should be See Stefan Schenck*.

Fittig, Rudolph, and **Moritz Rühlmann**, *should be Moritz Rühlmann*.

Fleck, Hermann, *should be Fleck, Hugo*.

Frank, A., 1884, A., 1226, *should be Frank, Adolph*.

Freisenius, Heinrich, and **Stocks**, *delete and Stocks*.

Friedel, Charles, brucite of Cogne, vale of Aosta, *add* 1883, A., 1061.

Frölich, C., *should be Fröhlich, Carl*.

Gabriel, Gato, *should be Gabriel, Sato*.

Gabriel, Sato, estimation of cellulose, 1829, A., 923, *should be* 1892, A., 923.

Genth, Frederick Augustus, hübnerite, hessite, bismutite and natrolite, 1892, A., 793, *should be Genth, Frederick Augustus, and Samuel Lewis Penfield*.

Giles, Wm. B., and **A. Schearer**, *should be A. Shearer*.

Gouy, A., and **H. Rigollet**, *should be H. Rigollet*.

Grabowski, Nicolais Il., *should be Grabowski, Julian*.

Gray, Thomas Andrew, *should be Gray, Thomas*.

Gray, Thomas Andrew, and **James Johnstone Dobbie**, *should be Gray, Thomas, Andrew Gray, and James Johnstone Dobbie*.

Günzberg, Alfred, *should be Günzburg, Alfred*.

Hansen, H., *should be Hanssen, H.*

Hantzsch, Arthur Rudolf, and **Elie Hermann**, *should be Elie Herrmann*.

Höhnell, Franz Xavier R. Freiherr von, *should be Höhnel, Franz Xavier R. (Freiherr) von*.

Hönig, Max, and **L. Jesser**, carbohydrates, 1888, A., 126, *should be* 1888, A., 1266.

Hullemann, I., *should be Hulleman, I.*

Irvine, Robert, and **J. Sims Woodhead**, *should be G. Sims Woodhead*.

Jenckel, Ludolf, *should be Jenkel, Ludolf*.

Kirchoff, Richard, *should be Kirchhoff, Richard*.

Klein, G., *should be Klien, Georg*.

Klinger, Heinrich Carl, action of sunlight on organic compounds, 1888, A., 888, *should be* 1886, A., 888.

Knop, Adolf, action of phosphorus pentasulphide on aniline, 1888, A., 265, *should be Knop, Aug.*

Knop, W., analysis of silicates, 1883, A., 379, *should be Knop, Johann August Ludwig Wilhelm*.

Knorr, Ludwig, and **Friedrich Jödicke**, reduction of hydroxylepidine and methyllepidone, 1887, A., 278, and pyrazolone derivatives from ethyl benzoylacetate, 1887, A., 1121, *for Friedrich Jödicke, read Karl Klotz*.

Ladenburg, Albert, and **Friedrich Carl Petersen**, duboisine, 1877, A., 740, *should be* 1887, A., 740.

Landolf, Fr., *should be Landolph, Fr.*

Lea, Matthew Carey, combinations of silver chloride, bromide and iodide with colouring matters, 1885, A., 350, *add* 1885, A., 611.

Lippit, T. P., *should be Lippitt, T. P.*

Ludwig, Ernst, and **Edmund Zillner**, 1890, A., 962, *should be* 1891, A., 962.

Martiny, Benno, and **Wilhelm Fleischmann**, *delete and Wilhelm Fleischmann*.

Mennell, Ernst, *should be Mennel, Ernst*.

Miller, Oscar, α -hydroxyphthalic acid, 1884, A., 1177, *should be Miller, Oswald*.

Mochsin Beg Chanlaroff, *should be See Chanlaroff, Mochsin Beg*.

Moddermann, Tjoden, *should be Modderman, Rudolph Sieco Tjoden*.

Müntz, *Achille*, and *Emile Aubin*, estimation of carbonic anhydride in the atmosphere, 1884, A., 659, *add* 1884, A., 710.

Obolonski, *Ivan N.*, *should be Obolonski, Ivan N.*

Osmond, *Floris*, heating and cooling of melted steel, 1887, A., 21, *should be* 1887, A., 219.

Ostwald, *Wilhelm*, electrical conductivity of acids, 1885, A., 323, *add* 1885, A., 3.

Perkin, *William Henry, junior*, and *Augustus Schloesser*, 1890, P., 162, *should be* 1889, P., 162.

Pflug, *Constantin*, ignatieffite, 1887, A., 1085, *add* 1890, A., 454.

Pickering, *Percival Spencer Umfreville*, *should be Pickering, Spencer Percival Umfreville*.

Pinner, *Adolf*, *m*-diazines (pyrimidines), *delete* 1885, A., 158, and 1891, A., 60.

Prafulla Chandra Ray, *should be Rây, Prafulla Chandra*.

Quantin, *Henri Emile*, volumetric estimation of sulphates, 1889, A., 1089, *should be* 1889, A., 1087.

Reinhart, *J. H.*, *should be Reinhardt, J. H.*

Rickmann, *James Pellatt*, *should be Rickman, James Pellatt*.

Rising, *William Bradley*, *should be Rising, Willard Bradley*.

Romanis, *Robert*, gold from Burmah, 1887, T., 221, *should be* 1887, A., 221.

Rosoll, *Alexander*, *should be Rosoll, Alexander*.

Rubricus, *H.*, 1892, A., 1030, 1521, *should be* 1892, A., 1030, 1524.

Salzeberger, *Georg*, *should be Salzberger, Georg*.

Schwerin-Lowitz (*Graf*) *von*, *should be Schwerin-Löwitz (Graf) von*.

Snijders, *Aarnout Johannes Cornelis*, *should be Snijders, Aarnout Johannes Cornelis*.

Stahel, *Rudolph*, A., 1259, *should be* 1890, A., 1259.

Stavely, *William W.*, *should be Staveley, William W.*

Steinscheider, *Josef*, *should be Steinschneider, Josef*.

Stillwell, *Charles M.*, *should be Stillwell, Charles M.*

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Thorpe, *Thomas Edward*, and *Henry Hallibarton Robinson*, 1890, P., 165, *should be* 1889, P., 165.

Tiemann, *Ferdinand*, and *Rudolf Haarman*, *should be Rudolf Haarmann*.

Veley, *Victor Herbert*, conditions of the reaction between copper and nitric acid, 1890, A., 170, *should be* 1890, A., 701.

Verneuil, *Auguste Victor Louis*, phosphorescent blende, 1888, A., 791, 1282, *should be* 1888, A., 791, 1248.

Wallach, *Otto*, new compounds of the camphor series and a new terpene, 1891, A., 1686, *should be* 1891, A., 1086.

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Benzenesulphonic anhydride (ABRAHAM), 1886, T., 692; P., 229.

Benzenesulphonic chloride, as a reagent for amines (HINSEBERG), 1891, A., 49.

Benzonitrile, dispersive power of (BARBIER and ROUX), 1889, A., 805.

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Dihydroxyphenylmethylglutaric acid (CARLSON), 1892, A., 1471.

Dimethoxydiphenylethane (*ethylidenedimethoxybenzene*) (GATTERMANN, EHRLHARDT and MAISCH), 1889, A., 862.

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1:2-Dimethylpyrrolidine (MERLING), 1891, A., 1507.

Di-*p*-phenethyl-carbamide and **-guanidine** (PATCKSCH), 1885, A., 256.

Diphenylacetoneitrile, *trinitro-* (v. RICHTER), 1888, A., 1186.

Diphenyldimethylthiocarbamide (BILLETER), 1887, A., 823.

Diphenyldisulphone-ethoxyphenylenediamine (*m-ethoxydiphenyldisulphone-o-phenylenediamine*) (AUTENRIETH and HINSBERG), 1892, A., 161.

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1:2-Diphenyl-3-methylpyrazolone (v. PERGER), 1886, A., 98; (MÜLLER), 1886, A., 899.

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Bismuthite, delete See also Bismuth carbonate.

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- $\alpha\beta$ -*tri*Chlorophenyl- γ -pyridonecarboxylic acid,** *add* (ZINCKE), 1890, A., 965.
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- ψ -Cumylmethoxyquinizine.** See Oxyphenyltetramethylpyrazole *should be* See Phenyltetramethylpyrazolone.

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Cyanmethine (4-amido-2:6-dimethyl-*m*-diazine) should be (6-amido-2:4-dimethyl-*m*-diazine).

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- Acetamidohydroxynaphthaquinone** (KEHRMANN and WEICHAEDT), 1889, A., 1197.
- Acetamidohydroxypropylbenzoic acid** (WIDMAN), 1884, A., 317.
- o*-**Acetamido-*p*-hydroxypropylbenzoic acid** (WIDMAN), 1886, A., 466.

- Acetamidohydroxyquinone** (NIETZKI and SCHMIDT), 1889, A., 968.
- p*-Acetamido-malachite-green** (KAESWURM), 1886, A., 553.
- Acetamido-1-methylquinoline** (NÜLTING and TRAUTMANN), 1891, A., 328.
- Acetamido- α -naphthaquinone** (MEERSON), 1888, A., 713.
- Acetamido- α -naphthaquinoneacetimide** (MEERSON), 1888, A., 713.
- Acetamido- β -naphthoic acids** (EKSTRAND), 1891, A., 78, 79.
- α -Acetamido- β -naphthol** (BÜTTCHER), 1885, A., 659.
- 4:3:2-Acetamidonitrocresol** (NIETZKI and RUPPERT), 1891, A., 308.
- Acetamidonitrosocarbazole** (MAZZARA and LEONARDI), 1892, A., 616.
- o*-Acetamidophenol, chlor-** (ASCHAN), 1887, A., 814.
- p*-Acetamidophenylacetamide** (PURGOTTI), 1891, A., 562.
- Acetamidophenylacetoneitrile, bromonitr-** (GABRIEL), 1883, A., 64.
- o*-Acetamidophenylethylhydrazine** (HEMPEL), 1890, A., 613.
- o*-Acetamidophenylhydrazine** (BISCHLER), 1890, A., 150.
- p*-Acetamidophenyl ethylxanthate** (LEUCKART), 1890, A., 605.
- o*-Acetamidophenyl phenylcarbamate** (LEUCKART), 1890, A., 761.
- o*-Acetamidophenylmethylhydrazine** (HEMPEL), 1890, A., 613.
- aa*-Acetamidophenylsulphonepropionic acid, and its *p*-halogen derivatives** (KÖNIG), 1892, A., 1090.
- as*-Acetamidoisophthalic acid** (LOEWENHERZ), 1892, A., 1464.
- o*-Acetamidopiperonylnitrile** (HABER), 1891, A., 706.
- o*-Acetamidquinoline** (KYRITZ), 1890, A., 1324.
- Acetamidostyrychne** (LOEBISCH and SCHOOP), 1886, A., 814.
- p*-Acetamidostyrene, bromo- and dinitro-** (GABRIEL and HERZBERG), 1883, A., 1123; (HERZBERG), 1885, A., 662.
- p*-Acetamidothiophenol** (LEUCKART), 1890, A., 605.
- p*-Acetamidotoluene-*o*-azodiethylaniline** (WALLACH), 1887, A., 41.
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- o*-Acetamido-*p*-toluic acid, nitr-** (NIEMENTOWSKI), 1889, A., 1066.
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- p*-Acetamido-*o*-tolylurethane** (SCHIFF), 1892, A., 1203.
- p*-Acetamidotriphenylcarbinol** (v. BAEYER and LÖHR), 1890, A., 1141.
- p*-Acetamidotriphenylmethane** (v. BAEYER and LÖHR), 1890, A., 1141.
- Acetanilide, formation of, from acetic acid and aniline** (MENSCHUTKIN), 1884, A., 1295.
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- 3:5:4-*o*-bromonitr-** (CLAUS and WEIL), 1892, A., 1205.
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- 1:2:3-, 1:3:4-, and 1:3:6-dinitr-** (WENDER), 1890, A., 885.
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- Acetanilide-*p*-sulphonic acid** (*acetylsulphanilic acid*) (NIETZKI and BENCKISER), 1884, A., 1024.
- Acetanilidoacetic acid** (REBUFFAT), 1887, A., 1108; 1890, A., 623; (PAAL and OTTEN), 1890, A., 1415.
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- β -Acetanilidoisobutyric acid and lactone** (BISCHOFF and MINTZ), 1892, A., 1339.
- α -Acetanilidocoumarin** (REBUFFAT), 1890, A., 623.
- β -Acetanilidoglutaranil** (ANSCHÜTZ), 1891, A., 742.
- β -Acetanilidoglutaranilic acid** (ANSCHÜTZ), 1891, A., 742.
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- α -Acetanilidopropionic acid** (NASTVOGEL), 1890, A., 1160.
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- 1:3:4-Acetazimidotoluene** (BOESSNECK), 1886, A., 874.
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- Acetethylenediamine, *dicyan*-** (GUARESCHI), 1892, A., 1071.
- Acetethyl-*p*-nitranilide** MELDOLA and SALMON, 1888, T., 778.
- Acetethyl-*o*-phenylenediamine** (HEMPFL), 1890, A., 612.
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- Acetimidomethylenic ethylenic disulphide** (MIOLATI), 1891, A., 894.
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- Acetoacetaldehyde** and its derivatives (CLAISEN and STYLOS), 1888, A., 671.
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- Acetoacetamide**, *pentabrom-* (v. PECHMANN and STOKES), 1885, A., 1202.
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- Acetoacetanilide** (KNORR), 1892, A., 708.
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- Acetoacetates**, action of alcohols on the carboxylic alkyl-group in (PETERS), 1888, A., 253.
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- Acetoacetic tetrahydroquinolide** (REISERT), 1891, A., 736.
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- Acetobenzenehydrazo-o-cresol** (GOLDSCHMIDT and POLLAK), 1892, A., 975.
- Acetobenzenehydrazo-p-cresol** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.
- Acetobenzenehydrazo- ψ -cuminaldehyde** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.
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- α -Aceto- β -benzo- and β -aceto- α -benzo-*m*-nitrophenylhydrazides** (BISCHLER and BRODSKY), 1890, A., 150.
- β -Aceto- α -benzophenylhydrazide** (MICHAELIS and SCHMIDT), 1887, A., 820.
- Acetobenzoylphenylhydrazide** (RUHEMANN and BLACKMAN), 1889, T., 614.
- Acetobenzylamine**, cyan- (GUARESCHI), 1892, A., 1072.
- Acetobenzyl-*p*-nitranilide** (MELDOLA and SALMON), 1888, T., 779.
- Acetobenzylthiocarbamide** (WERNER), 1891, T., 408; (DIXON), 1891, T., 562.
- Acetobenzyl-*o*-toluidide** (RABAUT), 1892, A., 48.
- Acetobenzyl-*m*-xylidide** (JABLIN-GONNET), 1892, A., 1320.
- Acetocamphorylphenylhydrazide** (CHAPLIN), 1892, A., 1481.
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- Acetochloro-*p*-xylidide** (KLUGE), 1885, A., 1208.
- Acetocumidide**, *mono-* and *di-nitr-* (ENGEL), 1885, A., 1215.
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- Acetodimethylamide**, *trichlor-* (FRANCHIMONT and KLOBBE), 1888, A., 1062.
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- α -Acetonaphthalide** (PIERSON and HEUMANN), 1883, A., 916.
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- α -Acetonaphthalide**, 2:4-bromamido- (MELDOLA), 1885, T., 500.
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- Acetoxychloro- α -naphthaquinonesulphonic acid**(CLAUS and VAN DER CLOET), 1888, A., 603.
- Acetoxyapocinehenine** (COMSTOCK and KOENIGS), 1888, A., 72.
- Acetoxycodeine** (GRIMAU), 1883, A., 359.
- Aceto-*o*-xylidide** (JACOBSEN), 1884, A., 737.
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- Aceto-*p*-xylidide**, nitr- (NÖLTING, WITT, and FOREL), 1886, A., 58; (WITT), 1889, A., 604.
- Acetoxyphenylacridine**(HESS and BERNTHSEN), 1885, A., 801.
- α -Acetoxy- γ -phenylserotonic acid** (TIE-MANN), 1892, A., 472.
- Acetoxyphenylpivalic acid and anhydride**(OTT), 1885, A., 663.
- Acetoxypropionitrile**(HENRY), 1886, A., 605.
- Acetoxypropylbenzoic acid**, nitr- (WID-MAN), 1884, A., 317.
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- 2-Acetoxypropidone**, 3:5-dichloro- (ZINCKE and FUCHS), 1892, A., 449.
- Acetoxytetramethylenecarboxylic acid** (PERKIN and SINCLAIR), 1891, P., 191; 1892, T., 45.
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- Acetylacrylic acid** (*phenomalic acid*) (PAWLOFF), 1884, A., 41; (WOLFF), 1887, A., 465; 1891, A., 1185.
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- p*-**Acetylanisoil** (GATTERMANN, EHRRHARDT, and MAISCH), 1890, A., 963.
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- Acetylbromothymol** (MAZZARA), 1890, A., 366.
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- γ -Acetylbutyric acid** (WOLFF), 1883, A., 455.
- β -Acetylisobutyric acid, derivatives of** (ZANETTI), 1892, A., 74.
- ω -Acetylisobutyric acid (α -methyl- β -acetylpropionic acid)** (THORNE), 1885, A., 1200.
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- Acetylbutyrylmethane** (CLAISEN and EHRRHARDT), 1889, A., 851.
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- ψ -Acetyl- α -carboxypyrrolic acid and its methylic salt** (CIAMICIAN and DENNSTEDT), 1884, A., 1045.
- 3-Acetylcarbostyryl** (FRIEDLÄNDER and GÖHRING), 1883, A., 1149.
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- Acetylchlorhydrose**, action of dipotassium salicylate on (MICHAEL), 1884, A., 439.
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- Acetyl-*p*-pentachlorobutyric acid**, *tri*-chlor- and *dichlorobrom*- (ZINCKE and RABINOWITSCH), 1891, A., 691.
- Acetyl-*tri*-chlorocrotonic acid**, *dichlor*- (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Acetyl-*tetrachlor*-crotonic acid**, *di*- and *tri*-chlor- (ZINCKE and FUCHS), 1892, A., 1462.
- Acetylchloroantiglyoxime** (HANTZSCH), 1892, A., 694.
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- Acetylchloromannose** (FISCHER and HIRSCHBERGER), 1890, A., 226.
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- Acetylcurcumin** (JACKSON and MENKE), 1885, A., 271.
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- Acetylisocyanic acid** (SCHOLL), 1891, A., 282.
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- ω -Acetyl- ω -diethylhexoic acid** and its oxime (KIPPING and PERKIN), 1890, T., 36.
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- Acetyldihydroxytetrahydroquinoline** (v. BAeyer and HOMOLKA), 1884, A., 78.
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- Acetylhydrocotarnineacetic acid** (BOWMAN), 1887, A., 1056.
- Acetylhydrojuglone** (BERNTHSEN and SEMPER), 1885, A., 548.
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- Acetylhydroxybenzenesulphone** (TASSINARI), 1889, A., 245.
- Acetyl-*m*-hydroxybenzenylamidoxime** (CLEMM), 1891, A., 699.
- Acetyl-*p*-hydroxybenzenylamidoxime** (KRONE), 1891, A., 700.
- Acetyl-*m*-hydroxybenzonitrile** (CLEMM), 1891, A., 699.
- Acetyl-1-hydroxy-1'-ethyltetrahydroquinoline** (*acetylquinin*) (KOHN), 1886, T., 507; P., 210.
- Acetylhydroxyhydrazobenzene** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
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- Acetylhydroxypiperidine**, *dichlor*- (BALLY), 1888, A., 965.
- p*-Acetylhydroxythiocarbanilide** (KALCKHOFF), 1883, A., 1110.
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- β -Acetylhydroxy- α -truxillie acid** (HOMANS, STELTZNER, and SUKOW), 1891, A., 1496.
- γ -Acetyl- β -hydroxyisovaleric acid** (OBREGIA), 1892, A., 325.
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- 1'-Acetylindole** (ZATTI and FERRATINI), 1890, A., 988.
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- Acetylmalic acid** (ANSCHÜTZ and BENNERT), 1890, A., 363.
- Acetylmalic- α -dinaphthalide** (BISCHOFF), 1891, A., 1220.
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- 1'-Acetyl-3'-methylisoindazole** (AUWERS and v. MEYENBURG), 1891, A., 1376.
- 1'-Acetyl-2'-methylindole** (MAGNANINI), 1888, A., 957.
- 2'-Acetyl-1'-methylindole** (MAGNANINI), 1888, A., 957.
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- Acetylmethylpyrroline** (CIAMICIAN and SILBER), 1886, A., 719.
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- ψ -Acetylmethylpyrroline**. See Methylpyrrol methyl ketone.
- 3-Acetyl-2'-methylquinoline** (**p*-acetylquinaldine*) (BEREND and THOMAS), 1892, A., 1488.
- 3'-Acetyl-2'-methylquinoline** (ELIASBERG and FRIEDLÄNDER), 1892, A., 1107.
- Acetyl-*o*-methyltetrahydrobenzene** (KEPPING and PERKIN), 1889, P., 144.
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- Acetyl- α - and - β -naphthenylamidoximes** (RICHTER), 1890, A., 62.

- α*-Acetylnaphthol** (ERDMANN), 1888, A., 488; 1890, A., 376.
- β*-Acetylnaphthol**, *α*-nitro-, molecular transformation of (BÖTTCHER), 1883, A., 1113.
- β*-Acetylnaphthylglycollic acid** (SCHWEITZER), 1891, A., 729.
- Acetyl-*α*-naphthylthiocarbazine** (FREUND), 1892, A., 510.
- Acetylnicotenylamidoxime** (MICHAELIS), 1892, A., 207.
- Acetyl-*m*-nitrobenzoic anhydride**. See Benzoic acetic anhydride.
- Acetylnitrocarvacrol** (MAZZARA and PLANCHER), 1892, A., 309.
- Acetylnitroethyl alcohol** (DEMUTH and MEYER), 1890, A., 858.
- Acetyl-*o*-nitrohydroxyazobenzene** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1261.
- Acetyldinitromethylquinol** (KEHRMANN and BRASCH), 1889, A., 970.
- Acetylnitro-opianic acid** (LIEBERMANN and KLEEMANN), 1887, A., 47.
- Acetyloctylthiophen** (v. SCHWEINITZ), 1886, A., 535.
- Acetylopianic acid** (LIEBERMANN and KLEEMANN), 1887, A., 47.
- Acetylpaconol** (NAGAI), 1892, A., 59, 845.
- Acetylpentamethyl-*p*-leucaniline** (FISCHER and KOERNER), 1884, A., 607.
- Acetylphenanthraquinol** (JAPP and KLINGEMANN), 1890, P., 31.
- p*-Acetylphenetidine**. See Phenacetin.
- p*-Acetylphenetol** (GATTERMANN, EHRHARDT, and MAISCH), 1890, A., 963.
- Acetylphenol**, *o*-nitro- (BÖTTCHER), 1883, A., 1113.
- d*-nitramido-** (SCHIFF), 1886, A., 613.
- 1:2:4-Acetylphenolbisazotoluene** (GOLDSCHMIDT and POLLAK), 1892, A., 976.
- Acetyl-*α*-phenoldichroin** (BRUNNER and CHUIT), 1888, A., 363.
- Acetylphenoloxychroin** (BRUNNER and CHUIT), 1888, A., 363.
- αα'*-Acetylphenoxyethane** (VLADESCO), 1892, A., 811.
- Acetylphenylcarbazine** (FREUND and GOLDSMITH), 1888, A., 1187.
- Acetylphenyldichlorohydroxypyridone** (ZINCKE), 1890, A., 965.
- Acetylphenyl-*p*-coumaric acid**, synthesis of (OGLIALORO-TODARO), 1884, A., 176.
- β*-Acetyl-*γ*-phenylisocrotonic acid** (ERDMANN), 1890, A., 375.
- Acetylphenylecgonine** (EINHORN and KLEIN), 1889, A., 283.
- Acetylphenyl-*ψ*-hydantoin** (PINNER and SPILKER), 1889, A., 707.
- Acetylphenylhydrouracil** (HOOGWERFF and VAN DORP), 1891, A., 197.
- 1':3'-Acetylphenylisocindazole** (AUWERS and v. MEYENBURG), 1891, A., 1378.
- 2-Acetyl-1-phenyl-5-methylhydroisopyrazolone** (LEDERER), 1892, A., 635.
- 3'-Acetyl-2'-phenyl-1'-methylindole** (KOHLEAUSCH), 1890, A., 24.
- Acetylphenylmethyltetrahydroquinazoline** (PAAL and KREECKE), 1892, A., 81.
- Acetyl-1-phenylpyrazole** and its oxime and phenylhydrazone (BALBIANO), 1890, A., 798.
- Acetylphenylsuccinic acid**, phenylhydrazine derivatives of (WELTNER), 1885, A., 793.
- Acetylphenylthiocarbazine** (FREUND and GOLDSMITH), 1888, A., 1188.
- Acetylphenyltropeine** (LADENBURG), 1883, A., 671.
- Acetylpicamar** (NIEDERIST), 1883, A., 1005.
- Acetylperideine** (LELLMANN and SCHWADERER), 1889, A., 903.
- Acetylperidine**, trichlor- (BALLY), 1888, A., 965.
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- β*-Acetylpropionic acid**. See Levulinic acid.
- Acetylpropionyl** and its derivatives (v. PECHMANN), 1888, A., 812.
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- Acetylpropionylhydrazone** (OTTE and v. PECHMANN), 1889, A., 1137.
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- Acetylpropionylmethane** (CLAISEN and EHREHARDT), 1889, A., 851.
- Acetylpropionyl-*αβ*-phenylhydrazacetoxime** (BALTZER and v. PECHMANN), 1891, A., 1116.
- p*-Acetylpropylbenzene** and its derivatives (WIDMAN), 1888, A., 1085, 1086.
- Acetylpropylic acetate** (LIPP), 1889, A., 844.
- Acetylpropylic alcohol** (FREER and PERKIN), 1887, T., 829, 834; P., 95; A., 33; (COLMAN and PERKIN), 1889, T., 352, 357; P., 89; (LIPP), 1889, A., 843.
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- Acetylpropylic benzoate** (LIPP), 1889, A., 844.

- Acetylpropylic bromide** (COLMAN and PERKIN), 1889, T., 357.
- Acetylisopropylic alcohol** (FITTIG and ERLÉNACH), 1888, A., 1053, 1269.
- Acetylisopropylpyrroline** and its derivatives (DENNSTEDT and ZIMMERMANN), 1887, A., 598.
- Acetylprotocatechone** (NEITZEL), 1892, A., 61.
- α -Acetylpyrroline** (CIAMICIAN and DENNSTEDT), 1884, A., 289; (CIAMICIAN and SILBER), 1885, A., 808.
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- Acetylpyrroline**, *tri-* and *penta-*brom- (CIAMICIAN and SILBER), 1885, A., 1078.
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- Acetylpyrrolines**, *dibromonitr-* [m.p. 206°, 175°] (CIAMICIAN and SILBER), 1887, A., 597; 1888, A., 61.
- Acetylpyrrolinecarboxylic acid** (CIAMICIAN and DENNSTEDT), 1884, A., 290.
- γ -Acetylpyrroline**. See Methyl pyrryl ketone.
- Acetylpyruvaldephenylhydrazone** (JAPP and KLINGEMANN), 1888, T., 526.
- Acetylpyruvic acid** (CLAISEN and STYLOS), 1887, A., 918.
- Acetylquinol**, thio- (LEUCKART), 1890, A., 604.
- Acetylquinoline**, bromamido- (LA COSTE), 1883, A., 91.
- Acetylquinovite** (LIEBERMANN), 1884, A., 1191.
- Acetylscopoletin** (TAKAHASHI), 1889, A., 255.
- Acetylstyrylhydantoin** (PINNER and SPILKER), 1889, A., 705.
- Acetyltetrahydroquinoline** (HOFFMANN and KOENIGS), 1883, A., 1144.
- Acetyltetramethylenecarboxylic acid** (PERKIN), 1883, A., 1083.
- Acetyltetramethyl-*p*-leucaniline** and *-p*-rosaniline (FISCHER and GERMAN), 1883, A., 1098.
- Acetyltetraphenylpyrroline** (FEHRLIN), 1889, A., 623.
- Acetylthallin** (SKRAUP), 1886, A., 80.
- Acetylthiocarbamidophenol** (KALCKHOFF), 1883, A., 1110.
- Acetyl- β -thioethylcrotonic anhydride** (AUTENRIETH), 1888, A., 251.
- Acetyl- α -*d*-thionaphthol** (GROSJEAN), 1890, A., 1306.
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- m*-Acetyltoluene** (ESSNER and GOSSIN), 1885, A., 252.
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- Acetyl-*p*-tolueneazo-*p*-cresol** (GOLDSCHMIDT and POLLAK), 1892, A., 974.
- Acetyl-*p*-tolueneazo- and hydrazo-phenol** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- Acetyltricarballic anhydride** (DÄUMICHEN), 1889, A., 238.
- Acetyltrimethylene** (PERKIN), 1884, A., 1155; 1885, T., 834; (LIPP), 1889, A., 845.
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- Acetylundecylmelitriose** (SCHEIBLER and MITTELMEIER), 1890, A., 1085.
- Acetylurethane**, action of phenylhydrazine on (ANDREOCCI), 1890, A., 889.
- Acetylvaleric acid** (PERKIN), 1889, P., 142; 1890, T., 230.
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- Acetylisovaleryl** (V. PECHMANN and OTTE), 1888, A., 1052; 1889, A., 1138.
- 1:2:4-Acetyl-*o*-xylene**, production of, from camphor (ARMSTRONG and KIRPING), 1892, P., 54.
- Acetylxylenylamidoxime** (OPPENHEIMER), 1890, A., 50.

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- Acid amides** from the decomposition of albumin (SCHULZE), 1885, A., 581.
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- action of acid chlorides on (PICTET), 1891, A., 57.
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- Acid anhydrides**, preparation of (LACHOWICZ), 1884, A., 990; (HENTSCHEL), 1884, A., 991.
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- Acid chlorides**, formation of, by the action of sulphonic chloride (CARARA), 1890, A., 1288.
- action of arsenious sulphide on (RAYMAN), 1887, A., 950.
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- basicity of, determination of the, from the conductivity of their sodium salts (OSTWALD), 1889, A., 327.
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- Acids, organic**, electrical conductivity of isomeric (OSTWALD and BERTHELOT), 1891, A., 517.
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- Alkaloid or alkaloids** from the *Areca* nut (JAHNS), 1889, A., 420; 1891, A., 94, 1520; 1892, A., 737.
- from *Atropa Belladonna* (HESSE), 1891, A., 748; 1892, A., 1498; (SCHÜTTE), 1892, A., 231; (MERCK), 1892, A., 1255.
- from *Atropa Belladonna* leaves, estimation of (DUNSTAN and RANSOM), 1886, A., 105.
- from *Atropa Belladonna* root, estimation of (DUNSTAN and RANSOM), 1885, A., 448.
- from *Berberidæ* (HESSE), 1887, A., 283.
- from *Berberis* (SCHMIDT and WILHELM), 1888, A., 1212; (SCHMIDT and KERSTEIN), 1890, A., 648; (RÜDEL), 1892, A., 641; (SCHMIDT), 1892, A., 1498.
- from *Berberis Aquifolium* and *B. vulgaris* (RÜDEL), 1892, A., 641.
- from *Boletus* (DUPETIT), 1884, A., 204.
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- from *Calycanthus glaucus* (WILEY), 1890, A., 403.
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- from *Carica papaya* (GRESHOFF), 1891, A., 334.
- from *Cephaelis Ipecacuanha* (ARNDT), 1889, A., 918.
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- from *Chonemorpha macrophylla* (GRESHOFF), 1891, A., 337.
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- Alkaloid or alkaloids** from *Coca* leaves (BIGNON), 1886, A., 388; (HESSE), 1887, A., 1125; 1889, A., 731; (LIEBERMANN), 1889, A., 732; (VAN DER MARCK), 1890, A., 310.
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- from *Conium maculatum* (LADENBURG and ADAM), 1891, A., 1119.
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- Amarylline** (FRAGNER), 1891, A., 1122.
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- Anhydroaconitine**, formation and properties of (DUNSTAN and INCE), 1891, T., 283.
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- Anhydroecgonine** (EINHORN), 1887, A., 741; 1889, A., 169; (LIEBERMANN and GIESEL), 1889, A., 168.
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- Atropine**, action of, on mercurous salts (GERRARD), 1886, A., 632.
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- Atropine**, nitr- (EINHORN and FISCHER), 1892, A., 1014.
- Atropine**, *d*- and *l*- (LADENBURG and HUNDT), 1890, A., 75.
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- Brucine**, dichloro- (BECKURTS), 1890, A., 1330.
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Chairamine and its salts (HESSE), 1885, A., 64, 67.
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*iso***Choline** and its salts (MEYER), 1883, A., 568.
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*apo***Cinchenine**, brom- and its derivatives (COMSTOCK and KOENIGS), 1888, A., 71.

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*iso***Cinchonidine** (HESSE), 1888, A., 380.

Cinchonidinesulphonic acid (HESSE), 1892, A., 515.

*iso***Cinchonidinesulphonic acid** (HESSE), 1892, A., 514.

Cinchonifine (JUNGFLEISCH and LÉGER), 1888, A., 380, 507.

Cinchonigine and its derivatives (JUNGFLEISCH and LÉGER), 1888, A., 380, 507, 612.

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*di*bromide (COMSTOCK and KOENIGS), 1887, A., 281.

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Cinchonine, bromo-, chloride (COMSTOCK and KOENIGS), 1892, A., 1011.

*di*chloro- (COMSTOCK and KOENIGS), 1892, A., 1011.

*iso***Cinchonine** and its derivatives (COMSTOCK and KOENIGS), 1887, A., 1124; 1888, A., 380; (HESSE), 1891, A., 583; 1892, A., 222;

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- iso***Cinchonine** and its derivatives (*con.*) (JUNGFLEISCH and LÉGER), 1891, A., 1121; 1892, A., 222.
- iso***Cinchoninesulphonic acid** (HESSE), 1892, A., 515.
- apo***Cinchonine** (JUNGFLEISCH and LÉGER), 1892, A., 1253.
- and hydrochloro-, specific rotatory power of, under the influence of acids (OUDEMANS), 1883, A., 359.
- Cocaicine** (BENDER), 1886, A., 85.
- Cocaine** (*benzoylmethylcogonine*) (MERCK), 1885, A., 565; (PAUL), 1886, A., 84; 1888, A., 1118; (BIGNON), 1886, A., 388, 951; (LYONS), 1886, A., 479; (FLÜCKIGER), 1886, A., 632; (EINHORN), 1887, A., 742; 1888, A., 381; 1889, A., 168; (LIEBERMANN), 1889, A., 419.
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- constitution of (CALMELS and GOSSIN), 1885, A., 912.
- specific rotatory power of (ANTRICK), 1887, A., 506.
- relation of, to atropine (EINHORN), 1890, A., 1010.
- alkaloids occurring with (EINHORN), 1889, A., 628.
- metamerie, and its homologues (EINHORN), 1889, A., 420.
- homologues of, artificial preparation of (MERCK), 1886, A., 163.
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- salts (PAAL), 1886, A., 84; 1888, A., 1118; (LYONS), 1886, A., 479.
- benzoate (PAAL), 1886, A., 633; (BIGNON), 1886, A., 951.
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- cinnamic acid in the products of decomposition of crude (FRANKFELD), 1889, A., 419.
- isocinnamic acid* in the alkaloids of (LIEBERMANN), 1890, A., 494.
- ferrocyanide (BECKURTS), 1890, A., 1318.
- hydrochloride (LIEBERMANN and GIESEL), 1890, A., 647.

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- Cocaine** (*benzoylmethylcogonine*), hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1001.
- mercurochloride (MÜLLER), 1891, A., 585.
- methiodide and methochloride (EINHORN), 1889, A., 170.
- physiological action of (GRASSET and JEANNEL), 1885, A., 571; (SIGHICELLI), 1888, A., 312; (MOSSO), 1888, A., 864; 1891, A., 486.
- anæsthetic action of (GRASSET), 1885, A., 285, 415.
- action of, on the invertebrates (RICHARD), 1885, A., 1002.
- detection of (GOELDNER), 1890, A., 96; (MEZGER), 1890, A., 831; (FERREIRA DA SILVA), 1891, A., 134, 1562; (VITALI), 1891, A., 1561.
- estimation of (LYONS), 1886, A., 1087.
- valuation of crude, from Peru (SQUIBB), 1890, A., 838.
- separation of, from hygrine (HOWARD), 1887, A., 1126.
- d*-**Cocaine** (EINHORN and MARQUARDT), 1890, A., 647, 913; (DECKERS and EINHORN), 1891, A., 475.
- Coerylcogonine** (HESSE), 1889, A., 732.
- Codeine** (*methylmorphine*) (v. GERICHTEN and SCHRÖTTER), 1883, A., 221; (GRIMAU), 1883, A., 358; (PLUGGE), 1887, A., 280; (KNOLL), 1889, A., 625.
- rotatory dispersion of (GRIMBERT), 1888, A., 330.
- non-nitrogenous compounds of from (v. GERICHTEN and SCHRÖTTER), 1883, A., 221.
- derivatives of (HESSE), 1884, A., 614; (FISCHER and v. GERICHTEN), 1886, A., 563.
- carbonate (OTTO and HOLST), 1892, A., 638.
- methiodide (SKRAUP and WIEGMANN), 1890, A., 179.
- β -methiodide and methochloride and their derivatives (HESSE), 1884, A., 614.
- reactions of (RABY), 1885, A., 302; (LAFON), 1885, A., 1095; (BROCINER), 1890, A., 311; (VITALI), 1892, A., 756.
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Codeine, bromo-, non-nitrogenous compounds from (v. GERICHTEN and SCHRÖTTER), 1883, A., 221.

ψ -**Codeine** (MERCK), 1891, A., 1121.

Codethyline (GRIMAU), 1883, A., 358.

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Colchicine (ZEISEL), 1883, A., 672; 1884, A., 1387; 1887, A., 284.

apo-**Colchicine** (ZEISEL), 1883, A., 673; 1884, A., 1387.

Colchicine (ZEISEL), 1883, A., 672; 1884, A., 1387; 1887, A., 284; 1888, A., 613; (JOHANNY and ZEISEL), 1889, A., 282.

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Colchicine-like decomposition product in a case of suspected poisoning (BAUMERT), 1888, A., 636.

Conchairamidine and its salts (HESSE), 1885, A., 64, 67, 68.

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Concusconine and its salts (HESSE), 1883, A., 602; 1885, A., 64, 66.

Conessine (*wrightine*) (WARNECKE), 1886, A., 372; 1888, A., 855; (POLSTORFF and SCHIRMER), 1886, A., 372; (POLSTORFF), 1886, A., 901.

Conhydrine (*oxyconiine*) and its derivatives (v. HOFMANN), 1885, A., 401, 563.

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ψ -**Conhydrine** (LADENBURG), 1891, A., 1119.

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α -**Coniceine** and its derivatives (v. HOFMANN), 1885, A., 401.

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β -**Coniceine** and its derivatives (v. HOFMANN), 1885, A., 401.

γ -**Coniceine** and its derivatives (v. HOFMANN), 1885, A., 562; (LELLMANN and MÜLLER), 1890, A., 802.

Coniceines (LELLMANN), 1889, A., 901; 1890, A., 1328.

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Corydaline (ADERMANN), 1891, A., 1266; (DOBBIE and LAUDER), 1892, T., 244, 605; P., 13, 123; (FREUND and JOSEPHI), 1892, A., 1366.

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hydrobromide (DOBBIE and LAUDER), 1892, T., 607.

methiodide (DOBBIE and LAUDER), 1892, T., 248.

platinochloride (DOBBIE and LAUDER), 1892, T., 247.

Cotarnine and its derivatives, constitution of (ROSER), 1889, A., 418; 1890, A., 530.

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Cotarnine hydriodide (ROSER), 1889, A., 17.

oxime (ROSER), 1890, A., 528.

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Cryptopine and its derivatives (KAUDER), 1887, A., 1122; (BROWN and PERKIN), 1891, P., 166.

Cupreine (HESSE), 1885, A., 276; 1886, A., 83; (PAUL and COWNLEY), 1885, A., 564, 997; (OUDEMANS), 1889, A., 1018; (GRIMAUZ and ARNAUD), 1892, A., 1253.

behaviour of, with methylic iodide (HESSE), 1892, A., 221; (GRIMAUZ and ARNAUD), 1892, A., 892.

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Curarine from *Strychnos toxicaria* (VILLIERS), 1885, A., 997.

reaction of (FERREIRA DA SILVA), 1891, A., 1562.

Curine (BOEHM), 1887, A., 1125.

Cusparidine (BECKURTS and NEHRING), 1892, A., 643.

Cusparine and its salts (KÖRNER and BÖHRINGER), 1884, A., 341; (BECKURTS and NEHRING), 1892, A., 643.

Cyanoconiine and its derivatives (v. MEYER), 1883, A., 352.

Cytisine (VAN DE MOER), 1891, A., 231; (v. BUCHKA and MAGALHÃES), 1891, A., 587; (PARTHEIL), 1891, A., 750, 946.

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Damascenine (SCHNEIDER), 1890, A., 1317.

Daturine, preparation of, from *Stramonium* seeds (HARTZ), 1885, A., 820.

Dehydrocinchenine (COMSTOCK and KOENIGS), 1887, A., 282.

dibromide (COMSTOCK and KOENIGS), 1892, A., 1012.

Dehydrocinchonine and its chloride (COMSTOCK and KOENIGS), 1887, A., 281, 282.

dibromide (COMSTOCK and KOENIGS), 1892, A., 1012.

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Dehydrocinchonine, hydrobromide (COMSTOCK and KOENIGS), 1887, A., 1125.

Dehydroquinine (COMSTOCK and KOENIGS), 1887, A., 1123.

Delphine, reaction of (FERREIRA DA SILVA), 1891, A., 1562.

Delphinine, composition and properties of (CHARALAMPI), 1891, A., 843.

Diacytyllupinine (BAUMERT), 1884, A., 1387.

Diacytylmorphine and its derivatives (HESSE), 1884, A., 613.

Dicinchonine (HESSE), 1885, A., 675.

Diapocinchonine (JUNGFLEISCH and LÉGER), 1892, A., 1253.

Dihydrocinchonine (COMSTOCK and KOENIGS), 1884, A., 1384.

Dihydroxyanhydroecgonine (EINHORN and RASSOW), 1892, A., 1015.

Dimethoxyconiine (v. HOFMANN), 1885, A., 563.

Dimethylecinchonine (FREUND and ROSENSTEIN), 1892, A., 892.

Dioxyberberine (PERKIN), 1890, T., 1003, 1087.

Dioxydehydronicotine, dibromo- (PINNER), 1892, A., 1497.

Ecgonine (CALMELS and GOSSIN), 1885, A., 912; (MERCK), 1887, A., 284; (GINTL and STORCH), 1887, A., 682; (EINHORN), 1887, A., 741; (MUSSI), 1891, A., 333.

constitution of (STOEHR), 1889, A., 908; (LIEBERMANN), 1891, A., 750; (MERLING), 1892, A., 360.

oxidation of (LIEBERMANN), 1890, A., 1449.

salts (CALMELS and GOSSIN), 1885, A., 912; (MUSSI), 1891, A., 333.

hydrochloride, specific rotatory power of (EINHORN), 1889, A., 1018.

methylic salt of, action of acid chlorides on (EINHORN and KLEIN), 1889, A., 283.

reactions of (VITALI), 1891, A., 1561.

d-**Ecgonine** (EINHORN and MARQUARDT), 1890, A., 646, 913.

Ecgonines, *d*- and *l*-, oxidation products of (LIEBERMANN), 1891, A., 749.

Emetine (KUNZ), 1887, A., 980.

assay of, in ipecacuanha wine (BLUNT), 1890, A., 310, 548.

estimation of (JONES), 1886, A., 1086; (KREMEL), 1888, A., 1351.

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- ψ -**Ephedrine** and its derivatives (LADENBURG and OEELSCHLÄGEL), 1889, A., 1020.
 constitution of (FILEHNE), 1891, A., 1264.
- Ergotinine** (TANRET), 1885, A., 84; (BOMBELON), 1888, A., 970.
- Eserine**, reaction for (FERREIRA DA SILVA), 1891, A., 1562.
- Ethylbenzoylcegonine** (NOVY), 1887, A., 1126.
- Ethylbenzoyl-*l*-cegonine** (EINHORN and MARQUARDT), 1890, A., 913.
- Ethylapocinchonine** (COMSTOCK and KOENIGS), 1885, A., 1249.
dibrom- (COMSTOCK and KOENIGS), 1888, A., 72.
- Ethylcinchonamine** (HESSE), 1885, A., 66.
- Ethyl-*d*-cocaine aurochloride** (EINHORN and MARQUARDT), 1890, A., 913.
- Ethylenedimorphine** (*dicodethine*) (GRIMAU), 1883, A., 359.
- Ethylhydrastamide** (FREUND and HEIM), 1891, A., 92.
- Ethylhydrastine** (FREUND and ROSENBERG), 1890, A., 533.
- Ethylhydrastine** (POWER), 1885, A., 675; (KERSTEIN), 1890, A., 74; (SCHMIDT and KERSTEIN), 1890, A., 649.
 ethiodide (FREUND and ROSENBERG), 1890, A., 533.
 hydroxide (SCHMIDT), 1890, A., 1169.
- Ethylhydroberberine** (GAZE), 1890, A., 1012.
 derivatives (LINK), 1892, A., 1499.
- Fagine** (HABERMANN), 1885, A., 676.
- Fumarine** (REICHWALD), 1890, A., 272.
- Galipeine** and its salts (KÖRNER and BÖHRINGER), 1884, A., 341.
- Galipidine** and **galipine** (BECKURTS and NEHRING), 1892, A., 642, 643.
- Gelseminine** (THOMPSON), 1887, A., 981.
- Gerontine** (GRANDIS), 1891, A., 588.
- Glaucine** (BATTANDIER), 1892, A., 893.
- Harmaline**, **harmalol** and **harmine** (FISCHER and TÄUBER), 1885, A., 820; (FISCHER), 1889, A., 730.
- apoHarmine** (FISCHER), 1889, A., 731.
- Hexahydronicotine** (BLAU), 1891, A., 583; 1892, A., 1365.
- ψ -**Homoatropine** (LIEBERMANN and LIMPACH), 1892, A., 891.
- Homochelidonine**, α - and β - (SELLE), 1891, A., 229.

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- γ -**Homochelidonine** (KÖNIG), 1891, A., 844.
- Homopocinchonine** and its derivatives (COMSTOCK and KOENIGS), 1888, A., 72.
- β -**Homocinchonidine** (HESSE), 1890, A., 1166.
- Homonapelline** (DUNSTAN and UMEY), 1892, T., 393.
- Homoquinine** (PAUL and COWNLEY), 1885, A., 563, 997; (HESSE), 1884, A., 1384; 1886, A., 83; 1890, A., 1166.
 synthesis of (HESSE), 1885, A., 276.
 salts (HESSE), 1884, A., 1384.
- Hopeine** (LADENBURG), 1886, A., 269, 563; (WILLIAMSON), 1886, A., 724.
- Hydrastaldehyde** (FREUND), 1889, A., 1221.
- Hydrastine**, constitution of (FREUND and ROSENBERG), 1890, A., 534.
- Hydrastine** (POWER), 1885, A., 675; (LYONS), 1886, A., 633; (EIJKMAN), 1887, A., 505; (FREUND and WILL), 1887, A., 174, 383; (FREUND), 1889, A., 627, 908, 1221; 1890, A., 534; (FREUND and LACHMANN), 1889, A., 1220; (KERSTEIN), 1890, A., 74; (FREUND and ROSENBERG), 1890, A., 532; (HEIM), 1890, A., 1333; (FREUND and HEIM), 1891, A., 92; (FREUND and PHILIPS), 1891, A., 93; (FREUND and DORMEYER), 1891, A., 1518; 1892, A., 223.
 constitution of (FREUND), 1889, A., 1222; 1890, A., 534.
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 alkyl derivatives of (SCHMIDT), 1890, A., 1167; (FREUND and HEIM), 1891, A., 92; (FREUND and PHILIPS), 1891, A., 93.
 allylic iodide (FREUND and PHILIPS), 1891, A., 93.
 ferrocyanide (BECKURTS), 1890, A., 1318.
 methhydroxide and methochloride (FREUND and ROSENBERG), 1890, A., 532.
 methiodide (FREUND and ROSENBERG), 1890, A., 532; (SCHMIDT), 1890, A., 1167.
 reactions of (v. HIRSCHHAUSEN), 1885, A., 606; (LYONS), 1886, A., 633; (VITALI), 1892, A., 755.

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- Hydrastine-ethylammonium hydr-oxide** (WILHELM), 1888, A., 1212.
- Hydrastine-methylammonium hydr-oxide** (SCHMIDT), 1890, A., 1167.
- Hydrastinine** (FREUND and WILL), 1887, A., 383.
 constitution of (FREUND), 1889, A., 1222.
 oxidation of (FREUND), 1889, A., 627.
 derivatives of (FREUND and WILL), 1887, A., 383.
- Hydrastophthalimidine** (FREUND and PHILIPS), 1891, A., 94.
- Hydroberberine** (SCHMIDT), 1884, A., 339; (BERNHEIMER), 1884, A., 340; (GAZE), 1890, A., 1011; 1891, A., 332; (LINK), 1892, A., 1498.
 derivatives (SCHMIDT), 1884, A., 339; (BERNHEIMER), 1884, A., 340.
 ethiodide and related compounds (GAZE), 1890, A., 1012; (LINK), 1892, A., 1499.
- Hydrocinchonidine** and its salts (HESSE), 1883, A., 97.
- Hydrocotarnine**, physiological action of (STOCKMAN and DOTT), 1891, A., 762.
- Hydrocupreine** (HESSE), 1888, A., 71.
- Hydrohydrastine** (POWER), 1885, A., 675.
- Hydrohydrastinine** (FREUND and WILL), 1887, A., 384.
 preparation of (FREUND and DORMEYER), 1891, A., 1518.
 constitution of (FREUND), 1889, A., 1222.
 derivatives of (FREUND and WILL), 1887, A., 1057.
 methochloride (FREUND and DORMEYER), 1891, A., 1519.
- Hydronicotine** (ETARD), 1884, A., 464.
- Hydroquinicine** (HESSE), 1888, A., 70.
- Hydroquinidine** and its sulphate (HESSE), 1883, A., 602.
- Hydroquinine** and its derivatives (HESSE), 1888, A., 69.
 methhydroxide (HESSE), 1888, A., 70.
- Hydroquininesulphonic acid** (HESSE), 1888, A., 71.
- Hydrotropidine** and its salts (LADENBURG), 1883, A., 1155.
- Hydrotropine iodide** (LADENBURG), 1883, A., 672.
- Hydroxybenzotropeine** and its salts (LADENBURG), 1883, A., 671.

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- α -Hydroxyecinchonine** and its derivatives (JUNGFLEISCH and LÉGER), 1888, A., 380, 507; 1889, A., 906.
- β -Hydroxyecinchonine** (JUNGFLEISCH and LÉGER), 1888, A., 380, 507.
- Hydroxyecianoconiine** and its derivatives (V. MEYER), 1883, A., 352, 354; (RIESS), 1885, A., 235.
- Hydroxyhydrastinine** and its derivatives (FREUND and WILL), 1887, A., 1057.
- Hydroxymethylhydrohydrastinine methiodide**, bromo- (FREUND and DORMEYER), 1891, A., 1520.
- Hygrine** (BIGNON), 1886, A., 388; (STOCKMAN), 1888, A., 508; (LIEBERMANN), 1889, A., 732; (LIEBERMANN and KÜHLING), 1891, A., 586.
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- Hymenodictyonine**, the bitter principle of *Hymenodictyon excelsum* (NAYLOR), 1883, A., 1141; 1885, A., 565.
- Hyosine** (LADENBURG), 1884, A., 761; 1892, A., 1366; (SCHMIDT), 1892, A., 1255, 1498; (HESSE), 1892, A., 1498.
 hydrochloride, physiological action of (GLEV and RONDEAU), 1888, A., 182; (PAWLOFF), 1890, A., 1019.
- Hyoscyamine**, existence of, in the lettuce (DYMOND), 1891, P., 165; 1892, T., 90.
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- Hypocaffeine** and its salts (FISCHER), 1883, A., 356.
- Imperatorine** (*peucedanine*), reactions of (BROCINER), 1890, A., 310.
- Imperialine** and its derivatives (FRAGNER), 1889, A., 284; (JAS- SOY), 1890, A., 1154.
- Jaboridine** (HARNACK), 1886, A., 85.
- Jaborine** (HARDY and CALMELS), 1886, A., 815.
- Japaconitine** (MANDELIN), 1885, A., 911.
- Jervine** and ψ -jervine (PEHKSCHEN), 1891, A., 88.
- Laserpitine** and its derivatives (KÜLZ), 1884, A., 182.
- Laudanine** (HESSE), 1884, A., 616.

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- Laurotetanine**, the active principle of certain Lauraceae (GRESHOFF), 1891, A., 337.
- Lobeline** (PASCHIKIS and SMITA), 1890, A., 1169.
- Lupanine** (HAGEN), 1886, A., 163; (SIEBERT), 1892, A., 223.
- Lupinidine** from *Lupinus luteus*, and its derivatives (BAUMERT), 1885, A., 177.
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- Lupinindine** (BAUMERT), 1884, A., 1387.
- Lupinine**, action of acetic chloride and anhydride on (BAUMERT), 1884, A., 1387.
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- Lycacanine, lycacanitine, and lycoc-tonine** (DRAGENDORFF and SPOHN), 1885, A., 403.
- Macleyine** (EIJKMAN), 1885, A., 404.
- Mandelic ψ -tropeine (ψ -homatropine)** (LIEBERMANN and LIMPACH), 1892, A., 891.
- Mandragorine** (AHRENS), 1889, A., 1074, 1222.
- Mannitine** (SCHILONE and DENARO), 1883, A., 50.
- Meconarceine** (MERCK), 1889, A., 906.
- Meconine** (WEGSCHEIDER), 1883, A., 996.
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- ψ -Meconine** and its derivatives (SALOMON), 1887, A., 585; (PERKIN), 1890, T., 1072.
- Methoxyhydrocotarnine methiodide** (ROSER), 1890, A., 531.
- Methoxyquinine methiodide** (GRIMAUX), 1892, A., 1363.
- Methylanhydroecgonine methiodide** (EINHORN), 1889, A., 170.
- Methylarecaidine** (JAHNS), 1892, A., 739.
- Methylbrucine**, ammonium base obtained from (HANSEN), 1885, A., 819.
- Methylapocinchene** and its hydrochloride (COMSTOCK and KOENIGS), 1885, A., 1248.
- Methylcinchonamine** (HESSE), 1885, A., 66.

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- Methylcocaine** (LIEBERMANN and GIESEL), 1890, A., 647, 803; (EINHORN and MARQUARDT), 1890, A., 913; (GIESEL), 1890, A., 1011.
- Methylcodeine** and its derivatives (GRIMAUX), 1883, A., 359; (HESSE), 1884, A., 614.
- Methylcolchicine** (JOHANNY and ZIESEL), 1889, A., 282.
- Methylconiine** (PASSON), 1891, A., 1118.
- Methylcytisine** (v. BUCHKA and MAGALHAES), 1891, A., 750.
- Methyldeoxystrychnine** (TAFEL), 1892, A., 1014.
- Methylecgonine** (LIEBERMANN and GIESEL), 1890, A., 647; (EINHORN and MARQUARDT), 1890, A., 913.
- Methylhydrastallylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydrastamide** (FREUND and HEIM), 1891, A., 92.
- Methylhydrastisoamylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydrasteine** (FREUND and ROSENBERG), 1890, A., 533.
- Methylhydrastethylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydrastimide** and its methiodide (FREUND and HEIM), 1891, A., 92.
- Methylhydrastine** and its methiodide (FREUND and ROSENBERG), 1890, A., 532; (SCHMIDT), 1890, A., 1167.
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- Methylhydrastomethylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydroberberine** (GIACOSA and SOAVE), 1890, A., 920; (GAZE), 1890, A., 1012.
- Methylhydrohydrastinine** and its derivatives (FREUND and DORMEYER), 1891, A., 1519.
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- Methylmorphomethine**. See Codo-methine under Alkaloids.
- Methylnarceine** and its salts (CLAUS and RITZEFELD), 1885, A., 997.
- Methylquinidine** (CLAUS), 1892, A., 1250.
- Methylquinine**, preparation of (LIPPMANN), 1892, A., 222.
- Methylstrychnine** (TAFEL), 1890, A., 1447; 1891, A., 1263.
- isoMethylstrychnine** (TAFEL), 1891, A., 1264.

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- α -Methyltropidine** and its derivatives (ROTH), 1881, A., 761; (MERLING, 1892, A., 358.
- β -Methyltropidine** (MERLING), 1892, A., 359.
- Methyltropine**, decomposition of, by potash (LADENBURG), 1883, A., 672.
- Moradeine** (ARATA and CANZONERI), 1890, A., 405.
- Morphine** (v. GERICHTEN and SCHRÖTTER), 1883, A., 221; (HESSE), 1884, A., 613; (PLUGGE), 1887, A., 280; (KNORR), 1889, A., 905.
- from *Papaver Rhoeas* (HESSE), 1890, A., 646.
- from *Escholtzia* (*Eschscholzia*) *californica* (BAUDET and ADRIAN), 1889, A., 644.
- formula of (DOTT and STOCKMAN), 1888, A., 506; (HESSE), 1888, A., 1115.
- constitution of (KNORR), 1889, A., 417, 906; (SKRAUP and WIEGMANN), 1889, A., 1018.
- water of crystallisation of (HESSE), 1889, A., 417.
- cryoscopic behaviour of solutions of compounds of (v. KLOBUKOFF), 1889, A., 933.
- action of alcoholic potash on (SKRAUP and WIEGMANN), 1889, A., 1018.
- action of potassium chromate on (DITZLER), 1886, A., 1047.
- action of sulphuric acid on, in presence of dibasic acids (CHASTAING and BARILLOT), 1888, A., 165.
- oxidation of (BARTH and WEIDEL), 1884, A., 85.
- derivatives (GRIMAU), 1883, A., 358; (HESSE), 1884, A., 613; (FISCHER and v. GERICHTEN), 1886, A., 563; (DANKWORTT), 1891, A., 332.
- ferrocyanide (BECKURTS), 1890, A., 1318.
- hydrate (DOTT), 1888, A., 506.
- hydriodide (KUNZ), 1888, A., 855.
- hydrochloride, rotatory dispersion of (GRIMBERT), 1888, A., 329.
- hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1001.
- hydrogen meconate (DOTT), 1887, A., 505.
- lactate (DOTT), 1886, A., 813.
- violet colouring matter derived from (CAZENEUVE), 1891, A., 1120.

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- Morphine**, physiological action of (STOCKMAN and DOTT), 1890, A., 1178.
- action of, on cats (GUINARD), 1891, A., 486.
- action of, on the intestine (SPITZER), 1891, A., 852.
- fate of, in the organism (ELIASOR), 1885, A., 577; (TAUBER) 1891, A., 479.
- detection of (DONATH), 1886, A., 899; (VULPIUS), 1887, A., 870; (ARMITAGE), 1888, A., 1137; (BROCINER), 1890, A., 311; (FERREIRA DA SILVA), 1891, A., 1562.
- detection of, in fatty matters (FOCKE), 1887, A., 187.
- detection of, in toxicology (SCHEIBE), 1883, A., 1036; 1884, A., 373.
- detection of, in the urine (NOTTA and LUGAN), 1885, A., 447.
- bromine as a test for (EILOART), 1885, A., 96.
- estimation of (SCHLICKUM), 1887, A., 622; (GOEBEL), 1887, A., 869; (CLAASSEN), 1890, A., 1198; (LOOFF), 1891, A., 771; (LAMBERT), 1891, A., 1403.
- estimation of, in opium (v. PERGER), 1884, A., 1217; (FLÜCKIGER), 1885, A., 1165; 1890, A., 94; (VENTURINI), 1886, A., 1086; (KREMEL; WILLIAMS), 1888, A., 635; (TESCHEMACHER and SMITH), 1888, A., 635, 1137; (LOOFF), 1890, A., 1349; (DIETERICH), 1891, A., 511.
- estimation of, colorimetric, in opium preparations (HINSDALE), 1890, A., 1349.
- Morrenine** (ARATA and GELZER), 1891, A., 1122.
- Morrhaine** (GAUTIER and MOURGUES), 1888, A., 1315; 1889, A., 63.
- Myoctonine** (DRAGENDORFF and SPOHN), 1885, A., 403; (DRAGENDORFF and SALOMONOWITSCH), 1887, A., 858.
- Nandinine** (ELJKMAN), 1885, A., 565.
- Napelline** (DUNSTAN and UMNEY), 1892, T., 391; P., 43.
- Narceine** (PLUGGE), 1887, A., 280; (CLAUS and MEIXNER), 1888, A., 611.
- derivatives (CLAUS and RITZEFELD), 1885, A., 996.
- ferrocyanide (BECKURTS), 1890, A., 1318.
- meconate (MERCK), 1889, A., 906.

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- Narceine**, reaction of (PLUGGE), 1887, A., 870; (FERREIRA DA SILVA), 1891, A., 1562.
- Narcotine** (PLUGGE), 1887, A., 280; (ROSER), 1888, A., 1115, 1316; 1889, A., 417; 1890, A., 528. constitution of (ROSER), 1890, A., 531. oxidation of (SCHMIDT and KERSTEIN), 1890, A., 648. ferrocyanide (BECKURTS), 1890, A., 1318. physiological action of (STOCKMAN and DOTT), 1891, A., 762. reaction of (FERREIRA DA SILVA), 1891, A., 1562; (VITALI), 1892, A., 756. bromine as a test for (EILOART), 1885, A., 96.
- Nicotine** (PINNER and WOLFFENSTEIN), 1891, A., 945; 1892, A., 1010, 1497. constitution of (BLAU), 1891, A., 583. specific rotation of (PŘIBRAM), 1887, A., 756. specific rotatory and refractive powers of (KANONNIKOFF), 1889, A., 453. specific rotatory power of salts of (SCHWEBEL), 1883, A., 354. thermochemistry of (COLSON), 1890, A., 101. action of benzoic chloride on (PINNER and WOLFFENSTEIN), 1891, A., 945. action of bromine on (PINNER), 1892, A., 1497. action of, on ethylic and methylic iodides (OECHSNER DE CONINCK), 1887, A., 603, 851. action of silver acetate on (TAFEL), 1892, A., 1104. oxidation of, with hydrogen peroxide (PINNER and WOLFFENSTEIN), 1891, A., 473. reduction of (LIEBRECHT), 1886, A., 161; 1887, A., 161. hydrogen tartrate (DRESER), 1889, A., 730. in tobacco plants, climatic conditions for the development of (MAYER), 1891, A., 858. physiological action of (LANGLEY and DICKINSON), 1890, A., 1178. action of, on the heart and blood-vessels (COLAS), 1891, A., 96. action of, on invertebrates (GREENWOOD), 1891, A., 485.

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- Nicotine**, influence of, on salivary secretion (LANGLEY), 1890, A., 397. poisoning by (RABOT), 1885, A., 416. estimation of (SCHEFFER), 1885, A., 604. estimation of, in presence of ammonia (PEZZOLATO), 1891, A., 771. estimation of, in tobacco (BIEL), 1888, A., 876; (KISSLING), 1890, A., 430.
- iso***Nicotine** (WEIDEL and RUSSO), 1883, A., 484.
- ψ -**Nicotine oxide** (PINNER and WOLFFENSTEIN), 1892, A., 1010.
- Nupharine** (GRÜNING), 1883, A., 370.
- Ononine**, reaction of (BROCIENER), 1890, A., 310.
- Oxyacanthine** (HESSE), 1887, A., 283; (RÜDEL), 1892, A., 641. derivatives of (HESSE), 1887, A., 283. detection of (v. HIRSCHHAUSEN), 1885, A., 606.
- Oxyberberine** and its compounds (PERKIN), 1890, T., 1003, 1083.
- Oxycinchene** and its derivatives (KOENIGS), 1890, A., 1433.
- Oxyconiceine** and its derivatives (v. HOFMANN), 1885, A., 563.
- Oxyconessine** (*oxyurightine*) (WARNECKE), 1888, A., 855.
- Oxyconine**. See Conhydrine under Alkaloids.
- Oxydimorphine**. See Oxymorphine under Alkaloids.
- Oxyhydrastinine** and its constitution (FREUND), 1889, A., 627, 1222. synthesis of, from methylic ω -chlorethylpiperonylcarboxylate (PERKIN), 1890, T., 997, 1034.
- Oxylupinine** (BAUMERT), 1883, A., 100.
- Oxymorphine** (ψ -*morphine*, *oxydimorphine*) (HESSE), 1884, A., 616; 1886, A., 1047; 1887, A., 163; (POLSTORFF), 1886, A., 900.
- Oxynicotine** (PINNER and WOLFFENSTEIN), 1891, A., 473.
- Oxytrinicotine** (ETARD), 1884, A., 464.
- Oxytropine** (LADENBURG and ROTH), 1884, A., 761.
- Papaveraldine** (GOLDSCHMIEDT), 1886, A., 478.
- Papaverine** (GOLDSCHMIEDT), 1884, A., 186; 1885, A., 1080; 1886, A., 83, 478; 1887, A., 163; 1888, A., 1116; (PLUGGE), 1887, A., 280. composition of (PLUGGE), 1887, A., 852.

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- Papaverine.** constitution of (GOLDSCHMIEDT), 1888, A., 1118; 1889, A., 167.
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- Papaveroline** (GOLDSCHMIEDT), 1886, A., 479; (KRAUSS), 1891, A., 85.
- ♣ **Pelletierine** (CIAMICIAN and SILBER), 1892, A., 1110.
- Phenomorfoline** and **phenylmorpholine** (KNORR), 1889, A., 1219, 1220.
- Phthalyltropeine** (LADENBURG), 1883, A., 672.
- Picraconitine** (DUNSTAN and INCE), 1891, T., 272; (EHRENBERG and PURFÜRST), 1892, A., 1254.
- Piliganine** (ADRIAN), 1886, A., 815.
- Pilocarpidine** (HARNACK), 1886, A., 85.
- Pituri**, physiological action of (LANGLEY and DICKINSON), 1890, A., 1178.
- Protopine** (SELLE), 1891, A., 229; (KÖNIG), 1891, A., 844.
- Protoveratridine** and **protoveratrine** (SALZBERGER), 1891, A., 231.
- Quinenine** (*chinine*). COMSTOCK and KOENIGS, 1884, A., 1383; 1885, A., 910.
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- Quinenine** (*chinine*), formation of lepidine derivatives from (KOENIGS), 1890, A., 1433.
- apo***Quinenine** (COMSTOCK and KOENIGS), 1885, A., 911.
- Quinicine**, oxidation of (SKRAUP and WÜRSTL), 1889, A., 1074.
- Quinidine** (*conquinine*) (WOOD and BARRET), 1883, A., 1018.
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- iso***Quinidine** (*isoconquinine*) (HESSE), 1888, A., 380.
- iso***Quinidinesulphonic acid** (*isoconquininesulphonic acid*) (HESSE), 1892, A., 514.
- Quinine** (WOOD and BARRET), 1883, A., 1018; (HESSE), 1884, A., 1384.
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- Quinine**, action of lime on (HASLAM), 1885, A., 1267.
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 hydrochloride, normal (CLERMONT), 1887, A., 980.
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 oreinol and phenol sulphates (HESSE), 1889, A., 908.
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- Quinine** silicofluoride (CAVAZZI), 1888, A., 969.
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*apo*Quinine, hydriod- (LIPPMANN and FLEISSNER), 1892, A., 82.
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*isoapo*Quinine (LIPPMANN and FLEISSNER), 1892, A., 82.
*iso*Quinine (HESSE), 1888, A., 379; (LIPPMANN and FLEISSNER), 1892, A., 82.
Reducine and *p*-**reducine** (THUDICHUM), 1888, A., 1120.
Sabadine and **sabadinine** (MERCK), 1891, A., 844.

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- Salicylic tropeine** (LADENBURG), 1883, A., 671.
- Sanguinarine** (HENSCHKE), 1887, A., 854; (KÖNIG), 1891, A., 844.
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- Scopoleine** (EIJKMAN), 1885, A., 404.
- Sinapine**, investigations on (REMSEN and COALE), 1884, A., 1387.
- Solaneine and solanine** (FIRBAS), 1890, A., 75.
- Solanidine** (FIRBAS), 1890, A., 75; (JORISSEN and GROSJEAN), 1890, A., 1182; 1891, A., 473.
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- Sparteine** (BERNHEIMER), 1884, A., 337; (HOUDÉ), 1886, A., 370; (BAMBERGER), 1887, A., 162; (AHRENS), 1887, A., 1056; 1888, A., 611; 1891, A., 842; (PERATONER), 1892, A., 1362.
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- Strychnine** (SHENSTONE), 1885, T., 139; P., 5; (BECKURTS), 1885, A., 675; 1890, A., 1328; (TAFEL), 1890, A., 1447; 1891, A., 1262; 1892, A., 1012.
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- Amides, aromatic,** preparation of (FILETI), 1887, A., 42.
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- Amidic substances,** effect of feeding on the secretion of (SCHULZE), 1890, A., 278.
- Amidine derivatives** (LOEB), 1887, A., 42.
- Amidine hydrochlorides,** action of heat on (PINNER), 1884, A., 723.
- Amidines** (PINNER), 1889, A., 1004; 1891, A., 60; (LOSSEN), 1892, A., 51.
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- Amidinethiocinnamic acid** (ANDREASCH), 1888, A., 48.
- Amidoacenaphthene** (QUINCKE), 1887, A., 592; 1888, A., 844.
- diAmidoacenaphthene** (QUINCKE), 1888, A., 844.
- Amidoacetal** (WOHL), 1888, A., 443.
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- p-Amidoacetanilide.** See Aceto-p-phenylenediamine.
- Amidoacetic acid.** See Glycocine.
- diAmidoacetone** (RÜGHEIMER and MISCHER), 1892, A., 952.
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- Amidoacetophenone.** See Acetophenone.
- o-Amidoacetophenone-oxime and -hydrazone** (AUWERS and v. MEYENBURG), 1891, A., 1376.
- Amidoaceto-p-toluidide.** See Aceto-o-tolylenediamine.
- diAmidoaceto-p-toluidide** (NIEMEN-TOWSKI), 1886, A., 545.
- o-Amido-m-acetyltoluene** and its derivatives (KLINGEL), 1884, A., 1343; 1886, A., 60.
- Amido-acids** (REBUFFAT), 1890, A., 621.
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- Amido-acids, fatty,** general reactions for (CURTIUS), 1884, A., 994.
- α-Amidoalizarin** (BRASCH), 1891, A., 1077.
- β-Amidoalizarin** (BRUNNER and CHURARD), 1885, A., 806; (ROEMER), 1885, A., 1068.
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- p-Amidoalkyl-o-toluidines** (WEINBERG), 1892, A., 1078.
- β-Amidoallylic cyanide** (HOLTZWART), 1889, A., 683.
- diAmidoamarine** and its salts (CLAUS and WITT), 1885, A., 1062.
- Amidoisoamylbenzene** (LLOYD), 1889, A., 700.
- pentaAmidoamylene** (NIEFZKI and ROSEMAN), 1889, A., 769.
- Amidoamylhexylquinoline** (v. MILLER), 1891, A., 1104.
- m-Amido-p-anilidobenzoic acid** (SCHÖPF), 1890, A., 374.
- diAmidoanilidotolylamine.** See triAmidophenyltoluidine.
- m-Amidoanisole.** See Anisidine.
- m-p-diAmidoanisole hydrochloride** (HÄHLE), 1891, A., 431.

- tetra*Amidoanisole (NIETZKI and KURTENACKER), 1892, A., 596.
- Amidoanthracene. See Anthramine.
- di*Amidoanthracene (PERKIN), 1889, P., 13.
- Amidoanthranilamide (v. MEYER and BELLMANN), 1886, A., 358.
- Amido- and *di*amido-anthraquinone (ROEMER), 1883, A., 71, 737.
- di*Amidoapione (CLAMICAN and SILBER), 1890, A., 1295.
- "Amidoaspartic colloid" (GRIMAU), 1884, A., 957.
- Amidoazo-. See under Azo-.
- Amido-bases, compounds of, with phenols (DYSON), 1883, T., 466.
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- Amidobenzaldehyde. See Benzaldehyde.
- o*-Amidobenzaldehydophenylhydrazine (ELIASBERG and FRIEDLÄNDER), 1892, A., 1106.
- p*-Amidobenzaldoxime (GABRIEL and HERZBERG), 1883, A., 1104; (HERZBERG), 1885, A., 662.
- Amidobenzamide. See Benzamide.
- m*-Amido-*m*-benzamidobenzamide (SCHULZE), 1889, A., 779.
- Amidobenzamidocarvacrol (MAZZARA), 1891, A., 48.
- 6-Amido-2-benzamidothymol, anhydride of (MAZZARA), 1891, A., 46.
- Amidobenzanilide and the action of aniline on (PIUTTI), 1883, A., 999.
- Amidobenzene. See Aniline.
- di*Amidobenzene. See Phenylenediamine.
- di*Amidobenzenes, isomeric, action of *p*-diazobenzenesulphonic acids on (GRIESS), 1883, A., 183.
- Amidobenzenes, *tri*-, *tetra*-, and *penta*-. See Benzene.
- Amidobenzeneazo-. See Benzene-, under Azo-.
- Amidobenzenehydrazinesulphonic acid. See Amidophenylhydrazinesulphonic acid.
- Amidobenzenesulphonic acids. See Anilinesulphonic acids.
- m*-Amidobenzenylamidoxime (SCHÖPFF), 1885, A., 1217.
- p*-Amidobenzenylamidoxime (WEISE), 1890, A., 46.
- m*-Amidobenzenylazoximebenzenyl and derivatives (SCHÖPFF), 1885, A., 1217.
- o*-Amidobenzethylamide (FINGER), 1888, A., 948.
- α -*di*Amidobenzhydrol (WICHELHAUS), 1889, A., 781.
- β -*di*Amidobenzhydrol and its derivatives (STAEDEL), 1883, A., 991.
- m*-Amidobenzidine (TÄUBER), 1890, A., 783.
- m*-*di*Amidobenzidine (BRUNNER and WITT), 1887, A., 672; (TÄUBER), 1890, A., 782.
- m*-*di*Amidobenzidine-*m*-sulphonic acid (ZEHR), 1891, A., 313.
- o*-Amidobenzobenzylanilide (SÖDERBAUM and WIDMAN), 1890, A., 1258.
- o*-Amidobenzoic acid. See Anthranilic acid.
- Amidobenzoic acids, *m*- and *p*-. See Benzoic acid.
- p*-Amidobenzoic sulphinide (NOYES), 1886, A., 804.
- Amidobenzoid (PIUTTI), 1883, A., 999.
- o*-Amidobenzomethylamide (WEDDIGE), 1887, A., 1043.
- Amidobenzophenone. See Benzophenone.
- Amidobenzophenoneoxime (AUWERS and v. MEYENBURG), 1891, A., 1378.
- Amidobenzophenylhydrazide (PELLIZZARI), 1886, A., 1025.
- o*-Amidobenzoylglyoxylic acid (*quinisatic acid*), and its salts (v. BAeyer and HOMOLKA), 1884, A., 79.
- Amidobenzoylpiperidine (SCHOTTEN), 1888, A., 1105.
- o*-Amidobenzylacetamide (GABRIEL and JANSEN), 1890, A., 1442.
- o*-Amidobenzylacetanilide (PAAL and KRECKE), 1892, A., 80.
- o*-Amidobenzylacetomethylamide (GABRIEL and JANSEN), 1892, A., 218.
- m*-Amidobenzylacetone (v. MILLER and ROHDE), 1890, A., 1138.
- o*-Amidobenzylaceto-*p*-toluidide (SÖDERBAUM and WIDMAN), 1890, A., 1258.
- Amidobenzylamine. See Benzylamine.
- Amidobenzylaniline. See Benzylphenylenediamine.
- o*-Amidobenzylbenzamide (GABRIEL and JANSEN), 1890, A., 1442.
- p*-Amidobenzyldeoxybenzoin (BUDDEBERG), 1890, A., 1143.
- o*-Amidobenzylethyl-*m*-amidophenol (LELLMANN and BOYE), 1890, A., 1116.
- Amidobenzyl alcohol. See Benzyl alcohol.
- Amidobenzyl chloride (BORGSMANN), 1886, A., 56.
- Amidobenzyl cyanide. See Amidophenylacetonitrile.
- Amidobenzylidenanthrone (BACH), 1890, A., 1425.
- m*-Amidobenzylidene-2'-methylindole (FISCHER), 1888, A., 284.
- Amidobenzylidene-2'-methylquinoline [m.p. 172°] (BULACH), 1889, A., 528.

- m*-Amidobenzylidene-2'-methylquinoline [in p. 158'] (WARTANIAN), 1891, A., 330.
- m*-Amidobenzylidene-4'-methylquinoline (HEYMAN and KOENIGS), 1888, A., 1114.
- Amidoisobenzylidenephthalimidine (GABRIEL), 1886, A., 631.
- o*-Amidobenzylidenerhodanic acid (BONDZYŃSKI), 1887, A., 1109.
- p*-Amidobenzylphthalimidine (HAFNER), 1889, A., 982; 1890, A., 487.
- o*-Amidobenzyl-*p*-toluidine (SÖDERBAUM and WIDMAN), 1890, A., 1258.
- hydrochloride (BUSCH), 1892, A., 734.
- Amidobisazobenzene (NIETZKI and DIESTERWEG), 1888, A., 1082.
- Amidobrucine (HANSEN), 1886, A., 564.
- Amidoisobutylbenzene. See *iso*Butylbenzene.
- 2-Amido-5-*iso*butyltoluene (EFFRONT), 1884, A., 899; 1885, A., 151.
- Amidobutyric acid. See Butyric acid.
- Amidocarbamidophenol (KALCKHOFF), 1883, A., 1110.
- Amidocarbazole (MAZZARA and LEONARDI), 1892, A., 616.
- di*Amidocarbazole, synthesis of, from benzidine (TÄUBER), 1891, A., 227.
- synthesis of, from carbazole (TÄUBER), 1892, A., 480.
- p*-Amidocarinols (O. and G. FISCHER), 1891, A., 695.
- Amidocarbonylsulphamyl. See Amylic thiocarbamate.
- γ -Amidocarbostyryl (FRIEDLÄNDER and LAZARUS), 1885, A., 1139.
- Amidocarboxyphenyloxamic acid (GRIESS), 1885, A., 1225; 1888, A., 827.
- di*Amidocarvacrol (MAZZARA), 1891, A., 47.
- Amidochrysene (ABEGG), 1890, A., 789; (BAMBERGER and BURGDOFF), 1890, A., 902, 1313.
- Amidochryso-quinol and quinone, salts of (ABEGG), 1891, A., 731.
- α -Amidocinnamic acid (PLÖCHL), 1884, A., 1349.
- derivatives of (ROTHSCHILD), 1890, A., 1123; 1891, A., 198.
- Amidocinnamic acids, nitration of (FRIEDLÄNDER and LAZARUS), 1885, A., 1138.
- carbamide derivatives of (ROTHSCHILD), 1890, A., 1123; 1891, A., 198.
- β -Amidocinnamitrile (HOLTZWART), 1889, A., 683.
- Amidochloro-. See Chloramido-.
- Amidocomenic acid, action of phosphorus pentachloride on (PELLMANN), 1884, A., 840.
- Amido-compounds in the animal system (BAHLMANN), 1887, A., 512.
- action of dilute nitric acid on (NORTON and LIVERMORE), 1887, A., 1038.
- action of nitrous acid on (KLOBBE), 1891, A., 292.
- action of phenylic isocyanate on (KÜHN), 1885, A., 260, 979.
- formation of haloid substitution derivatives of, by the reduction of nitro-derivatives of hydrocarbons (KOCK), 1887, A., 810.
- formation of thiocyanates from (GATTERMANN and HAUSSKNECHT), 1890, A., 749.
- Amido-compounds, aromatic, action of silicon tetrachloride on (HARDEN), 1886, P., 251; 1887, T., 40.
- Amidocoumarin (TAEGER), 1887, A., 939; 1891, A., 918.
- Amidocresols. See Cresol.
- β -Amidocrotonanilide (KNORR), 1892, A., 708; (LEDERER), 1892, A., 965.
- β -Amidocrotonitrile (HOLTZWART), 1889, A., 683.
- Amidocumene. See Cumidine.
- p*-*di*Amidocumene (KEHRMANN and MESSINGER), 1891, A., 298.
- Amido- ψ -cumenol and the action of acetic anhydride on (LIEBERMANN and V. KOSTANECKI), 1884, A., 1147.
- o*-Amidocuminic acid (WIDMAN), 1886, A., 466.
- di*Amidocuminic acid and its hydrochloride (LIPPMANN), 1883, A., 194.
- di*Amido- ψ -cuminic acid (NEF), 1888, T., 433.
- Amidocumylacrylic acids, *o*- and *m*-, and their salts (WIDMAN), 1886, A., 467.
- Amido- ψ -cumylenethenylamidine (AUWERS), 1886, A., 141.
- m*-Amidocumylpropionic acid (WIDMAN), 1886, A., 467.
- m*-Amidocyanobenzoic acid (TRAUBE), 1883, A., 192.
- Amido-*di*-cyanobenzoyl, derivatives of (GRIESS), 1885, A., 1225.
- di*Amido-*di*-cyanocarboxylic acid. See Ammelide.
- Amido-*p*-cyanophenylacetic acid (TRAUBE), 1883, A., 193.
- Amidocyanophenylglyoxylic acid (GRIESS), 1885, A., 1226.
- p*-*di*Amido-*p*-cymene hydrochloride (LIEBERMANN and V. HINSKY), 1886, A., 240.
- Amidocymenesulphonic acid. See Cymidinesulphonic acid.
- p*-Amidodeoxybenzoinoxime (NEY), 1888, A., 1197.

- di*Amidodieresol, action of nascent nitrous acid on (DENINGER), 1890, A., 38.
- Amidodicyanic acid (WUNDERLICH), 1886, A., 135.
- di*Amido-1:4-diethoxybenzene. See Diethoxyphenylenediamine.
- Amidodiethoxyresorcinol (WILL and PUKALL), 1887, A., 661.
- p*-Amidodiethylaniline. See Diethyl-*p*-phenylenediamine.
- β -Amidodiethylanilinesulphonic acid (BERNTHSEN), 1889, A., 776.
- di*Amidodithylic sulphoxide, picrate of (CROSS and BEVAN), 1892, A., 130.
- o*-Amidodiethylresorcinol hydrochloride (PUKALL), 1887, A., 662.
- p*-Amidodiethyl-*o*-toluidine. See Methylethylphenylenediamine.
- Amidodihydroindoxyl, derivatives of (BURMEISTER and MICHAELIS), 1891, A., 1068.
- Amidodihydroxynaphthalene. See Dihydroxynaphthylamine.
- 4-Amido-2:6-dihydroxypyridine. See Glutazine.
- di*Amidodihydroxyquinone (NIETZKI and SCHMIDT), 1888, A., 943.
- 4-Amido-1:3-dimethoxybenzene and its derivatives (BECHHOLD), 1889, A., 1155.
- Amidodimethylaniline. See Dimethylphenylenediamine.
- di*Amidodimethylcarbazole (TÄUBER and LOEWENHERZ), 1891, A., 834.
- Amidodimethyleyanidine (TSCHERVEN-IWANOFF), 1892, A., 1291.
- 4-Amido-2:6-dimethyl-*m*-diazine (SCHWARZE), 1890, A., 1159.
- m*-Amido- $\beta\gamma$ -dimethylindene (V. MILLER and ROHDE), 1890, A., 1138.
- Amido-1:3-dimethylquinoline (NÖLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- Amido-1:4-dimethylquinoline (MARCKWALD), 1890, A., 1004.
- Amidodimethyl- α -resorcylic acid (MEYER), 1888, A., 148.
- di*Amidodimethylstilbene sulphide (ANSCHÜTZ and SCHULTZ), 1889, A., 602.
- di*Amidodinaphthyl and its derivatives (NIETZKI and GOLL), 1886, A., 245.
- di*Amidodinaphthyl derivatives (JULIUS), 1887, A., 56.
- tetra*Amidoisodinaphthyl (STAUB and SMITH), 1885, T., 106.
- 1:3'-*di*Amidodinaphthyl disulphide (EKBOM), 1891, A., 573.
- 1:4'-*di*Amidodinaphthyl disulphide (EKBOM), 1890, A., 994.
- 3:3'-*di*Amido- and *tetra*-amido-4:4'-diphenol (KUNZE), 1889, A., 262.
- di*Amido-*o*-diphenyl [m.p. 81] (TÄUBER), 1891, A., 570.
- di*Amidodiphenyl [m.p. 125] (BERNTHSEN), 1886, A., 471.
- m-m*-*di*Amidodiphenyl [m.p. 257] (BRUNNER and WITT), 1887, A., 673.
- o-p*-*di*Amidodiphenyl [m.p. 45]. See *iso*Benzidine.
- p-p*-*di*Amidodiphenyl [m.p. 122]. See Benzidine.
- tetra*Amidodiphenyl. See *di*Amidobenzidine.
- o*-Amidodiphenylamine. See Phenylphenylenediamine.
- 2:4-*di*Amidodiphenylamine (KEHRMANN and MESSINGER), 1892, A., 1109.
- tri*Amidodiphenylamine (NIETZKI and ERNST), 1890, A., 1114.
- m*-Amidodiphenylcarbamide (LEUCKART), 1890, A., 760.
- α -*di*Amidodiphenylcarbinol (WICHELHAUS), 1889, A., 781.
- β -*di*Amidodiphenylcarbinol and its compounds (STAEDEL), 1883, A., 991.
- 4-Amido-2:6-diphenyl-*m*-diazine, formation of (SCHWARZE), 1890, A., 1159.
- Amidodiphenyldisulphonic acid (LIMPRICHT), 1891, A., 930.
- di*Amidodiphenylene ketone oxide and its hydrochloride (PERKIN), 1883, T., 191.
- di*Amidodiphenyleneazone (TÄUBER), 1892, A., 184.
- Amidodiphenylene-*m*-phenylenediamine (FISCHER and HEPP), 1890, A., 614.
- di*Amidodiphenylenic oxide (GALEWSKY), 1891, A., 1234.
- m*-Amidodiphenylmethane (BECKER), 1883, A., 202, 203.
- p*-Amidodiphenylmethane (BASLER), 1881, A., 310.
- p*-Amidodiphenylmethane derivatives (MANN), 1889, A., 261.
- p*-*di*Amidodiphenylmethane and its nitro-derivatives (GRAM), 1892, A., 618.
- tetra*Amidodiphenylmethane and its compounds (STAEDEL), 1883, A., 991.
- 4-Amido-2:6-diphenyl-5-methyl-*m*-diazine (V. MEYER), 1889, A., 578; 1890, A., 68; (SCHWARZE), 1890, A., 1159.
- p*-Amidodiphenylmethylpyrazolecarboxylic acid (KNORR and JÖDICKE), 1885, A., 1248.

- o*-Amidodiphenylmethylpyrazolecarb-
oxylic anhydride (KNORR and Jö-
dicke), 1885, A., 1248.
- di*Amidodiphenylphosphinic acid (Dör-
ken), 1888, A., 831.
- p-di*Amidodiphenylpiperazine, forma-
tion of colouring matters from (LELL-
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- Amidodiphenylquinoxaline (NIETZKI
and MÜLLER), 1889, A., 605.
- Amidodiphenylsulphamic acid (SPIE-
GEL), 1885, A., 987.
- di*Amidodiphenylsulphone and its deri-
vatives (LAUTH), 1892, A., 1093.
- p*-Amidodiphenylsulphonic acid (CAR-
NELLEY and SCHLESELMANN), 1886,
T., 380; P., 184.
- Amidodiphenylthiocarbamides (LELL-
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977.
- tri*Amidodiphenyltolylcarbinol. See
Rosaniline.
- tri*Amidodiphenyltolylmethane. See
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- di*Amidoditetrahydronaphthylcarbami-
de (BAMBERGER and BAMMANN),
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- di*Amidoditolyl. See Tolidine.
- o*-Amidoditolylamine. See Tolytolyl-
enediamine.
- 2-Amido-5:5'-ditolyl-4:4'-disulphonic
acid (HELLE), 1892, A., 1467.
- di-p*-Amidodi-*m*-tolyllic disulphide
(JACOBSON and NEY), 1889, A., 771.
- Amidodi-*o*-tolyltolylenediamine (KUH-
LWEIN), 1890, A., 371.
- di*Amidodixylis and colouring matters
derived therefrom (NÖLTING and
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- di*Amidodurylic acid. See *di*Amido- ψ -
enminic acid.
- Amidothanesulphonic acid. See Tau-
rine.
- di*Amidoethoxydiphenyl (WEINBERG),
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- di*Amidoethoxydiphenylsulphonic acid
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and MÜLLER), 1889, A., 258.
- 1:1-Amidoethoxynaphthalene (GRAND-
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862; (HEERMANN), 1892, A., 1097.
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- β -Amidoethoxynaphthalene (GAESS),
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- di*Amidoethoxynaphthylphenyl (WEIN-
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- di*Amidoethoxyphenyltolylsulphonic
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- 4-Amido-1-ethoxyquinoline (VIS), 1892,
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- o*-Amidoethylaniline. See Ethylphenyl-
enediamine.
- Amidoethylbenzenes, derivatives of
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- o*-Amidoethylbenzenesulphonic acid
(PAUCKSCH), 1885, A., 256.
- ω -Amidoethylbromopiperonylcarboxyl-
ic anhydride (PERKIN), 1890, T.,
1017.
- Amidoethylic acetate (GABRIEL and
HEYMANN), 1890, A., 1268.
- Amidoethylic alcohol. See Hydroxy-
ethylamine.
- Amidoethylic benzoate, salts of (GABRIEL
and HEYMANN), 1890, A., 1267.
- m*-Amidoethylic cumate (ABENIUS),
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- Amidoethylindene (v. MILLER and
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- 1-Amidoethylpiperidine (GABRIEL),
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- ω -Amidoethylpiperonylcarboxylic acid,
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- di*Amidoethylsulphone (GABRIEL), 1892,
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- p*-Amidoethyl-*o*-toluidine. See Methyl-
ethylphenylenediamine.
- Amidoethylxylenes (TÖHL and GEYGER),
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- p*-Amidofluorene (STRASBURGER), 1884,
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- Amidofumaric acid, diamide of (PERKIN),
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- Amidogen (NH₂), alleged existence of
(COMBES), 1883, A., 14.
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- Amidoglycocine (CURTIUS), 1891, A.,
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- Amido-group, displacement of the, by
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- Amido-group**, displacement of the, in aromatic derivatives by chlorine, bromine and cyanogen (SANDMEYER), 1884, A., 1311; 1885, A., 149.
- displacement of the, in aromatic compounds by hydrothionyl and oxysulphuryl (KLASON), 1887, A., 478.
- displacement of the, by the sulphonic acid group (LANDSBERG), 1890, A., 1137.
- displacement of cyanogen by the (AHRENS), 1888, A., 266.
- displacement of halogens by the (SEELIG), 1891, A., 36.
- displacement of the nitro-group in aromatic compounds by the (SANDMEYER), 1887, A., 720.
- best method of elimination of (FRIEDLÄNDER), 1889, A., 606.
- reagent for (HINSBERG), 1891, A., 49.
- Amido-groups** in organic bases, method of determining the number of (MELDOLA and HAWKINS), 1892, P., 133.
- di***Amidoguaiacol** (HERZIG), 1883, A., 464.
- Amidoguanidine** and its derivatives (THIELE), 1892, A., 1295.
- Amidohemipinic acid**, sodium salt of (GRÜNE), 1887, A., 49.
- o*-**Amidohemipinic anhydride** (LIEBERMANN), 1886, A., 468; 1887, A., 257; (GRÜNE), 1887, A., 48.
- o*-**Amidohemipinphenylhydrazide** (LIEBERMANN), 1887, A., 45.
- Amidoheptamethylene** (MARKOWNIKOFF), 1890, A., 729.
- Amidoheptylbenzene** (AUGER), 1887, A., 816.
- p*-*di***Amidohexamethylene** (v. BAeyer and NOYES), 1889, A., 1147.
- di***Amidohexane** and its derivatives (TAFEL), 1889, A., 976; (TAFEL and NEUGEBAUER), 1890, A., 1000.
- α*-**amidohexocyanidine** and *α*-**amidohexocyanine** (DUVILLIER), 1887, A., 850.
- α*-**Amidohexoic acid**. See Leucine.
- di***Amidohydraclidine ketone** and its derivatives (JOURDAN), 1885, A., 988.
- o*-**Amidohydrazinebenzene-*p*-sulphonic acid**. See Amidophenylhydrazine-sulphonic acid.
- Amidohydrocarbostyryl** (FISCHER and KUZEL), 1884, A., 441.
- di***Amidohydrocinnamic acid**. See *di*Amido-*β*-phenylpropionic acid.
- Amidohydrothiocinnamic acid** (BONDZYŃSKI), 1887, A., 1109.
- Amidohydroxyanthraquinone ethylate** (LIEBERMANN and HAGEN), 1883, A., 73.
- Amido-*o*-hydroxybenzoic acid**. See Amidosalicylic acid.
- 4-**Amido-*m*-hydroxybenzoic acid** (LIMPRICHT), 1891, A., 1037.
- β*-**Amido-*α*-hydroxybutyric acid** (MELIKOFF), 1884, A., 1301.
- Amidohydroxyisobutyric acid** (MELIKOFF), 1885, A., 650.
- Amidohydroxycamphor** (KACHLER and SPITZER), 1883, A., 1008.
- di***Amidohydroxydiphenyl** (WEINBERG), 1888, A., 285.
- p*-**Amido-*m*-hydroxydiphenylamine** (KÖHLER), 1888, A., 587.
- 4-**Amido-4'-hydroxydiphenyl-2:2'-disulphonic acid** (LIMPRICHT), 1891, A., 929.
- 4:4'-*di***Amido-3-hydroxydiphenyl-6-sulphonic acid** (WEINBERG), 1888, A., 285.
- 2-**Amido-2'-hydroxy-5:5'-ditolyl-4:4'-disulphonic acid** (HELLE), 1892, A., 1468.
- 4-**Amido-1-hydroxy-3-methoxybenzene** (BECHHOLD), 1889, A., 1155.
- 2-**Amido-2'-hydroxy-3'-methylhydroquinoline** (EDELEANU), 1888, T., 560; P., 55.
- 2-**Amido-1-hydroxy-4-methylquinoline** (GANELIN and v. KOSTANECKI), 1892, A., 506.
- 4-**Amido-1-hydroxy-2-naphthoic acid** (NIETZKI and GUTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 59.
- di***Amidohydroxynaphthylphenyl derivatives** (MELDOLA and MORGAN), 1889, T., 124, 125.
- Amidohydroxyoxindole chloride** (JACKSON and BENTLEY), 1892, A., 1219.
- tetra***Amidohydroxypentene** (NIETZKI and ROSEMAN), 1889, A., 770.
- di***Amido-4-hydroxy-2-phenyl-6-methyl-*m*-diazine** (PINNER), 1887, A., 1054.
- p*-**Amido-3-hydroxy-2'-phenylquinoline** (WEIDEL and v. GEORGIEVICS), 1888, A., 967.
- di***Amidohydroxyphenyltolyl** (WEINBERG), 1888, A., 285.
- 4:4'-*di***Amido-3-hydroxyphenyltolylsulphonic acid** (WEINBERG), 1888, A., 285.
- Amidohydroxypropylbenzoic acid**, action of nitrous acid, and of ethylic chloroformate on (WIDMAN), 1884, A., 1022.
- o*-**Amido-*p*-hydroxyisopropylbenzoic acid** (WIDMAN), 1886, A., 466.
- m*-**Amido-*p*-hydroxyisopropylbenzoic acid** (WIDMAN), 1884, A., 317.

- Amido-*exo*-hydroxyisopropylbenzoic acid**, action of acetic anhydride on (WIDMAN), 1884, A., 302.
- Amidohydroxypyridine** and its derivatives (KRIPPENDORFF), 1885, A., 1243.
- 1-Amido-3-hydroxyquinoline** (MATHÉUS), 1888, A., 852; (ALTSCHUL), 1888, A., 1108.
- Amido-2'-hydroxyquinoline**. See Amidocarbostyryl.
- 3'-Amidohydroxyquinoline** and the action of its diazo-salts on phenols and tertiary bases (RIEMERSCHMIED), 1883, A., 1148.
- Amidohydroxythymoquinoneimide** (ANSCHÜTZ and LEATHER), 1886, T., 725.
- Amido-*o*- and *m*-hydroxytoluic acid** (NIETZKI and RUPPERT), 1891, A., 308.
- di*-Amidodimidobenzene** nitrate (NIETZKI), 1887, A., 930.
- Amidoindazine** (WITT, NÖLTING, and GRAMDMOUGIN), 1891, A., 312.
- Amidoisethionic acid**. See Taurine.
- Amidolepidine**. See Amido-4'-methylquinoline.
- di*-Amidomalonamide** (CONRAD and BRÜCKNER), 1892, A., 40.
- Amidomercaptan** (GABRIEL), 1889, A., 870.
hydrochloride (GABRIEL), 1891, A., 815.
- Amidomesitylene**. See Mesidine.
- Amidomethamidoperchloromethylecyamide** (WEDDIGE), 1886, A., 324.
- m*-Amido-*o*-methoxycinnamic acid** (SCHNELL), 1887, A., 140.
- 2-Amido-3-methoxy-2'-phenylhydroquinoline** (V. MILLER and KINKELIN), 1887, A., 978.
- m*-Amido-*p*-methoxytoluene** (LIMPACH), 1889, A., 499.
- di*-Amidomethoxytriphenylmethane** (MAZZARA and POSSETTO), 1885, A., 1141.
- Amidomethylanthranol** and its acetyl derivative (ROEMER), 1883, A., 1137.
- Amidomethylanthraquinone** (ROEMER; ROEMER and LINK), 1883, A., 1137, 1138.
- Amidomethylcarbostyryl** (FEER and KOENIGS), 1885, A., 1235.
- 4-Amido-5-methyl-2:6-diethyl-*m*-diazine** (V. MEYER), 1889, A., 577; (SCHWARZE), 1890, A., 1159.
- Amidomethyldihydroanthracene** (ROEMER), 1883, A., 1137.
- m*-*di*-Amido-*p*-methylethylbenzene** (ERRERA and BALDRACCO), 1892, A., 606.
- Amido-*p*-methylhexadecylbenzene** (KRAFFT and GÜTTIG), 1891, A., 130.
- Amidomethylethyliso-oxazole** (HANNIOT), 1892, A., 79.
- Amidomethylethylisopropyl-*m*-diazine** (V. MEYER), 1889, A., 578.
- Amido-2'-methylindole** (WAGNER), 1888, A., 284.
- Amidomethylnaphthaquinoxaline** (WITT), 1886, T., 400.
- o*-Amido-2'-methyloctohydro- β -naphthaquinoline** (BAMBERGER and STRASSER), 1891, A., 1514.
- 4-Amido-1-methylquinoline** [m.p. 143°] (NÖLTING and TRAUTMANN), 1891, A., 327; 1892, A., 728.
- Amido-3-methylquinoline** [m.p. 132°] (FOURNEAUX), 1885, A., 400.
- 1-Amido-3-methylquinoline** [m.p. 62°] (NÖLTING and TRAUTMANN), 1891, A., 327; 1892, A., 728.
- 4-Amido-3-methylquinoline** [m.p. 145°] (NÖLTING and TRAUTMANN), 1891, A., 325; 1892, A., 727.
- 2-Amido-2'-methylquinoline** (GERDEISEN), 1889, A., 520.
derivatives of (DOEBNER and MILLER), 1884, A., 1373.
- 3'-Amido- and diamido-2'-methylquinoline** (CONRAD and LIMPACH), 1888, A., 1111.
- 2'-Amido-4'-methylquinoline** (KLOTZ), 1888, A., 1113; (EPHRAIM), 1892, A., 1488.
- 3-Amido-4'-methylquinoline** (BUSCH and KOENIGS), 1890, A., 1437.
- Amidomethylselenazole** (HOFMANN), 1889, A., 726.
- 3-Amido-1-methyltetrahydroquinoline** (BAMBERGER and WULZ), 1891, A., 1254.
- 1-Amido-3-methyltetrahydroquinoline** (BAMBERGER and WULZ), 1891, A., 1255.
- meso*-Amidomethylthiazole**. See Thio-cyanopropimine.
- o*-Amidomethyl-*p*-toluidine**. See Methyltolenediamine.
- Amido- β -methylumbelliferone** (V. PECHMANN and COHEN), 1884, A., 1332.
- Amidomethyluracil** (BEHREND), 1886, A., 338.
- Amidomyristic acid** (HELL and TWERDOMEDOFF), 1889, A., 956.
- Amidonaphthalene**. See Naphthylamine.
- di*-Amidonaphthalene**. See Naphthylenediamine.
- Amidonaphthalenesulphonic acids**. See Naphthylaminesulphonic acids.
- Amido- β -naphthaphenanthrazine** (LOEWE), 1890, A., 1424.

- Amidonaphthaphenazine** (ZAERTLING), 1890, A., 509.
- α -Amido- α -naphthaphenazine** (FISCHER and HEFF), 1890, A., 801; (KEHRMANN), 1890, A., 1266.
- Amido- β -naphthaquinol** and its hydrochloride (GROVES), 1884, T., 300.
- Amidonaphthaquinone** (MEERSON), 1888, A., 1200.
- Amidonaphthaquinoneimide** (KRONFELD), 1884, A., 1037.
- di*Amidonaphtharesorcinol hydrochloride** (KEHRMANN and WEICHARDT), 1889, A., 1198.
- Amidonaphthastyril** (EKSTRAND), 1887, A., 373.
- Amido- α -naphthoic acid derivatives** (EKSTRAND), 1889, A., 152.
- Amido- β -naphthoic acid** (EKSTRAND), 1891, A., 932.
- di*Amido- β -naphthoic acids** (EKSTRAND), 1891, A., 78, 79.
- Amido- α -naphthol [2:1]** (GRANDMOUGIN and MICHEL), 1892, A., 861.
- Amido- α -naphthol [1:4]** (GRANDMOUGIN and MICHEL), 1892, A., 861.
- sulphonic acid from** (SEIDEL), 1892, A., 721.
- di*Amido- α -naphthol**, action of bromine on (ZINCKE and GERLAND), 1887, A., 838; (ZINCKE), 1888, A., 290.
- derivatives of** (MEERSON), 1888, A., 713.
- Amido- β -naphthol [1:2]** (GRANDMOUGIN and MICHEL), 1892, A., 862.
- identification of** (MELDOLA and MORGAN), 1889, T., 120.
- Amido- β -naphthol [1:2]** and its hydrochloride, preparation of, from nitroso- β -naphthol (GROVES), 1884, T., 293.
- Amido- β -naphthol [1':2 and 4':2]** (FRIEDLÄNDER and SZYMANSKI), 1892, A., 1233.
- di*Amido- β -naphthol hydrochloride** (LOEWE), 1890, A., 1424.
- Amido- β -naphthol sulphate** (GROVES), 1884, T., 297.
- Amido- α -naphthol-3:1'-disulphonic acid** (BERNTSEN), 1891, A., 215.
- Amido- β -naphthol -1':3'- and -3:3'-disulphonic acids** (WITT), 1889, A., 273.
- α -Amido- α -naphtholsulphonic acid [4:1:2]** (SEIDEL), 1892, A., 721.
- β -Amido- α - and α -Amido- β -naphtholsulphonic acids** (SCHMIDT), 1892, A., 476.
- α -Amido- β -naphthol- α -sulphonic acid [1:2:1'], [α -acid] (WITT), 1889, A., 271.**
- Amido- β -naphthol- β -sulphonic acid [1:2:3'], [β -acid] (WITT), 1889, A., 272.**
- Amido- β -naphthol- α -sulphonic acid, [1:2:4'], [γ -acid] (WITT), 1889, A., 272.**
- Amido- β -naphthol- β -sulphonic acid, [1:2:2'], [δ -acid] (WITT), 1889, A., 272.**
- di*Amido- β -naphthol- α -sulphonic acid** (NIETZKI and ZÜBBLIN), 1889, A., 515.
- Amido- α - and - β -naphtholsulphonic acids [4:1:2 and 2:1:4'] (REVERDIN and DE LA HARPE), 1892, A., 996.**
- Amido- α - and - β -naphthyl mercaptans** (HOFMANN), 1887, A., 839.
- m*-Amido-*p*- α -naphthylamidobenzoic acid** (HEIDENSLIEBEN), 1891, A., 307.
- Amido- β -naphthylamine hydrochlorides** (LOEWE), 1890, A., 1424.
- Amido- β -naphthylphenylamine.** See Phenyl-naphthylenediamine.
- di*Amido- β -naphthylphenylamine** (ERNST), 1891, A., 301.
- Amidonaphthylphenylcarbamide** (GOLDSCHMIDT and ROSELL), 1890, A., 616.
- Amidonitro-.** See Nitramido-.
- Amidonononaphthene** (KONOWALOFF), 1892, A., 443.
- ar-p*-Amido-octohydro- α -naphthaquinoline** (BAMBERGER and STETTENHEIMER), 1891, A., 1261.
- o*-Amido-octylbenzene hydrochloride** (AHRENS), 1887, A., 134.
- p*-Amido-octylbenzene and its derivatives** (BERAN), 1885, A., 523.
- Amido-octyltoluene and its derivatives** (BERAN), 1885, A., 523.
- Amido-opianylphenylhydrazide** (LIEBERMANN), 1887, A., 45.
- Amido-oxalacetic acid phenylhydrazone** (TAFEL), 1887, A., 467.
- Amido-oxalamidobenzoic acid.** See Amidocarboxyphenyloxamic acid.
- o*-Amido-oxalyl- α -naphthyl mercaptan** (LANG), 1892, A., 1079.
- di*Amido-oxalyl- α - and - β -naphthyl mercaptans** (v. HOFMANN), 1887, A., 840.
- o*-Amido-oxalylphenyl mercaptan** (LANG), 1892, A., 1079.
- Amido-*soo*xazole** (HANRIOT), 1891, A., 1108.
- "Amido-oxyquinizinecarboxylic acid"** (TAFEL), 1887, A., 468.
- Amido-2'-oxyquinoline.** See Amidocarbostyril.
- α -Amidopalmitic acid** (HELL and IORDANOFF), 1891, A., 820.
- Amidoparaldimine** (CURTIUS and JAY), 1890, A., 735.
- Amidoperezone** (ANSCHÜTZ and LEATHER), 1886, T., 720.
- Amidophenaceturic acid** (HOTTER), 1888, A., 1299.

- p*-Amido- and *di*amido-phenanthraquinol hydrochlorides (ANSCHÜTZ and MEYER), 1885, A., 1068.
- α-di*Amidophenanthraquinol and its derivatives (KLEEMANN and WENSE), 1885, A., 1210.
- α-di*Amidophenanthraquinone (KLEEMANN and WENSE), 1885, A., 1210.
- Amidophenazine (BARBIER and VIGNON), 1888, A., 688; (FISCHER and HEPP), 1889, A., 500.
- 1:4-*di*Amidophenazine (FISCHER and HEPP), 1889, A., 500.
- 2:2'-*di*Amidophenazine (NIETZKI and ERNST), 1890, A., 1114.
- m*-Amido-2-phenethylpiperidine (SCHUFFTAN), 1890, A., 1438.
- o*-Amidophenetoil, action of chloracetic acid on (VATER), 1884, A., 1144.
action of cyanogen chloride on (BERLINERBLAU), 1885, A., 147.
- m*-Amidophenetoil and its derivatives WAGNER), 1885, A., 1212.
hydrobromide (STAEDEL), 1883, A., 578.
- p*-Amidophenetoil, action of cyanogen chloride on (BERLINERBLAU), 1885, A., 147.
oxidation products of (KINZEL), 1892, A., 158.
- tetra*Amidophenetoil hydrochloride (KÖHLER), 1884, A., 1161.
- Amidophenetoiltrimethylammonium iodide (SEIDEL), 1891, A., 53.
- Amidophenols. See Phenol.
- Amidophenolsulphonic acids and their relationship to Liebermann's colouring matters (BRUNNER and KRAEMER), 1884, A., 1354.
action of bleaching powder on (HIRSCH), 1887, A., 834.
- Amidophenophenanthrazine (HEIM), 1888, A., 1097.
- Amidophenyl amidotolyl ketone (LIEBERMANN), 1888, A., 1097.
- Amidophenyl ethyl ether. *mono*-, *di*-, and *tri*- (LINDNER), 1885, A., 775.
- Amidophenyl ethylene ethers, *o*-, *m*-, and *p*-, preparation, properties and salts of (WAGNER), 1884, A., 433.
- o*-Amidophenyl mercaptan and its derivatives (V. HOFMANN), 1887, A., 823, 1039.
formation of anhydro-compounds of, from thioamides (JACOBSON), 1886, A., 700.
- Amidophenylacetamide (PERGOTTI), 1891, A., 562.
- Amidophenylacetic anhydride (KOSSEL), 1892, A., 468.
- m*-Amidophenylacetonitrile (FRIEDLÄNDER), 1884, A., 737; (SALKOWSKI), 1884, A., 1176.
- p*-Amidophenylacetonitrile and its salts (FRIEDLÄNDER and MAHLY), 1883, A., 919; (FRIEDLÄNDER), 1884, A., 737.
- Amidophenylacridine. See Anilido-acridine.
- di*Amidophenylacridine. See Chrysaniline.
- m*-Amidophenyl*di-p*-amidotolylmethane (BISCHLER), 1889, A., 133.
- Amidophenylazimidobenzene (WILLGERODT), 1892, A., 1322.
- Amidophenylbenzoglycoeyamine and its hydrochlorides (GRIESS), 1883, A., 669.
- o*-Amidophenylbenzylhydrazine (PAAL and BODEWIG), 1892, A., 1455.
- Amidophenylbiazolone (FREUND and KUH), 1890, A., 1441.
- Amidophenylbismethyltetrahydroquinoxylmethane (V. MILLER and PLÖCHL), 1891, A., 1102.
- Amidophenylcarbazinecarboxylic acid (FREUND and KUH), 1890, A., 1441.
- m*-Amidophenylcrotonaldehyde (V. MILLER and KINKELIN), 1886, A., 701.
- 6-Amido-5-phenyl-2:4-dibenzyl-*m*-diazine (WACHE), 1889, A., 684.
- Amidophenylencarbamide (JENTZSCH), 1889, A., 46.
- o*-Amidophenylethylhydrazine (HEMPEL), 1890, A., 612.
- α-p*-Amidophenylfurfuracrylonitrile (FREUND and IMMERWAHR), 1890, A., 1408.
- o*-Amidophenylglyoxylic acid. See Isatic acid.
- o*-Amidophenylglyoxylic lactim. See Isatin.
- o*-Amidophenylhydrazine (BISCHLER), 1889, A., 501.
- m*-Amidophenylhydrazine and its hydrochloride (GRIESS), 1885, A., 789.
- 5-Amidophenylhydrazine-*o*-sulphonic acid (LIMPERICHT), 1885, A., 1216.
- o*-Amidophenylhydrazine-*p*-sulphonic acid (NIETZKI and LERCH), 1889, A., 114; (LERCH), 1889, A., 881.
- m*-Amidophenylhydroquinoline (V. MILLER and KINKELIN), 1885, A., 1145.
- o*-Amidophenyl diphenylcarbamate (LELLMANN and BONHOEFFER), 1887, A., 936.
- Amidophenyl diphenylcarbamates (LELLMANN and BENZ), 1891, A., 1215.
- o*-Amidophenyl disulphide (V. HOFMANN), 1887, A., 823.

- p*-Amidophenyllic ethylxanthate (LEUCKART), 1890, A., 601.
- o*-Amidophenyllic methylic sulphide (V. HOFMANN), 1887, A., 823.
- Amidophenyllic phenylmethylcarbamates (LELLMANN and BENZ), 1891, A., 1215.
- di*Amidophenyllic thiocyanate (AUSTEN), 1889, A., 700.
- Amido-2'-phenylindole (FISCHER and SCHMIDT), 1888, A., 698.
- Amidophenylinduline (FISCHER and HEPP), 1891, A., 1046.
action of sulphuric acid on (FISCHER and HEPP), 1892, A., 341.
- p*-Amidophenyllactic acid (ERLENMEYER and LIPP), 1883, A., 994.
- m*-Amidophenyllutidine (LEPETIT), 1887, A., 1053.
- m*-Amidophenyllutidinedicarboxylic acid (LEPETIT), 1887, A., 1053.
- Amido- and diamido-2-phenyl-6-methyl-*m*-diazine (PINNER), 1887, A., 1054.
- o*-Amidophenylmethylhydrazine (HEMPEL), 1890, A., 613.
- m*-Amido-2'-phenyl-3'-methylhydroquinoline (V. MILLER and KINKELIN), 1886, A., 561.
- m-di*Amido-*p*-phenyl- α -methylpropionic acid (ERRERA and BALDRACCO), 1892, A., 606.
- Amidophenyl-2'-methylquinoline (SCHIFF and VANNT), 1890, A., 1298.
- m*-Amido-2'-phenyl-3'-methylquinoline (V. MILLER and KINKELIN), 1886, A., 560, 561.
- p*-Amido-2'-phenyl-2-methylquinoline (*ψ -flavaniline*) (WEIDEL and BAMBERGER), 1888, A., 966.
- 4-Amido-2'-phenyl-3'-methylquinoline. See Flavaniline.
- Amidophenylmercaptomethyl mercaptan (JACOBSON and FRANKENBACHER), 1891, A., 1048.
- di*Amidophenyl- β -naphthol (ERNST), 1891, A., 301.
- Amido-*n*-phenylosotriazolecarboxylic acid (BALTZER and V. PECHMANN), 1891, A., 1117.
- 1-Amidophenylpiperidine (LELLMANN and JUST), 1891, A., 1245.
- 3-Amidophenylpiperidine, formation of dyes from (LELLMANN and GELLER), 1888, A., 1108.
- o*-Amidophenylpropionic acid and its derivatives (V. BAEYER and BLOEM), 1883, A., 196.
- di*Amidophenylpropionic acid (GABRIEL), 1883, A., 195.
- o*-Amido- α -phenylpropionic anhydride. See Atroxindole.
- α -Amidophenylpropionitrile (ERLENMEYER and LIPP), 1883, A., 992.
- Amidophenylquinoline [m.p. 136° 5] (JELLINEK), 1886, A., 1045.
- Amido-3-phenylquinoline (WEIDEL and V. GEORGIEVICS), 1888, A., 967.
- 2-Amido-2'-phenylquinoline (V. MILLER and KINKELIN), 1885, A., 1144.
- Amidophenylisoquinoline (GABRIEL), 1886, A., 631.
- Amidophenylrosinduline (FISCHER and HEPP), 1890, A., 765.
- Amidophenyltetrazolecarboxylic acid (BLADIN), 1892, A., 1009.
- tri*Amidophenyltoluidine (ERNST), 1891, A., 300.
- o*-Amidophenyl-*p*-[*p*]-tolylamine (HEIDENSLEBEN), 1891, A., 307.
- p*-Amidophenyl-*p*-tolylamine. See Tolyphenylenediamine.
- di*Amidophenyltolymethanes (ULLMANN), 1888, A., 288.
- Amidophenyltriazoledicarboxylic acid (BLADIN), 1892, A., 735.
- o*-Amidophenyltrimethylmethane (SENKOWSKI), 1890, A., 1296.
- p*-Amidophenyltrimethylmethane (SENKOWSKI), 1890, A., 1296; 1892, A., 44.
- p*-Amidophenylurethane and its derivatives (HAGER), 1885, A., 149.
- o*-Amidophenylvaleric acid, derivatives of (DIEHL and EINHORN), 1887, A., 485.
- Amidophthalamide (PELLIZZARI), 1886, A., 1025.
- Amidophthalic acid, salts of (LANDSBERG), 1883, A., 476.
- as*-Amidoisophthalic acid (LOEWENHERZ), 1892, A., 1464.
- di*Amidoisophthalic acid (CLAUS and WYNDHAM), 1889, A., 143.
- Amidophthalide [m.p. 167°] (RACINE), 1887, A., 951.
[m.p. 178°] (HÖNIG), 1886, A., 242.
- Amidopiaselenole (HINSBERG), 1890, A., 161.
- o*-Amidopiperonaloxime (HABER), 1891, A., 706.
- Amidopiperonylacrylic acid (PERKIN), 1891, T., 158.
- γ -Amidopropanesulphonic acid (LAUER), 1890, A., 1090.
- 2:4:1-Amidopropenylbenzoic acid (WIDMAN), 1886, A., 466.
- 3:4:1-Amidopropenylbenzoic acid and its derivatives (WIDMAN), 1884, A., 317.
action of nitrous acid on (WIDMAN), 1884, A., 1022.

- Amidopropionic acid.** See Alanine.
- Amidopropiophenone hydrochloride** (SCHMIDT), 1890, A., 372.
- o*-Amido-*p*-propylcinnamic acid** (WIDMAN), 1886, A., 464.
- Amidopropylene** (HIRSCH), 1890, A., 860.
- Amidoisopropyl alcohol.** See Hydroxypropylamine.
- γ -Amidopropyl benzoate** (GABRIEL and EFFEIDT), 1892, A., 213.
- β -Amidopropyl benzoate hydrobromide** (GABRIEL and HEYMANN), 1890, A., 1268.
- γ -Amidopropyl hydrogen sulphate** (GABRIEL and LAUER), 1890, A., 473.
- Amidoisopropylindene** (v. MILLER and ROHDE), 1889, A., 984.
- γ -Amidopropyl hydrogen sulphate** (LAUER), 1890, A., 1090.
- Amidopurpurin** (BRASCH), 1891, A., 1078.
- di*Amidopyrene** (JAHODA), 1888, A., 161.
- Amidopyridine-3:4-dicarboxylic acid** (GOLDSCHMIEDT and STRACHE), 1889, A., 1016.
- di*Amidoquinol** (NIETZKI and SCHMIDT), 1889, A., 968.
hydrochloride, and its derivatives (NIETZKI and PREUSSER), 1886, A., 1024.
diethyl ether (NIETZKI and RECHBERG), 1890, A., 967.
- tri*Amidoquinol sulphate** (NIETZKI and SCHMIDT), 1889, A., 968.
- 2-Amidoquinoline** (FREYDL), 1888, A., 296.
- 4-Amidoquinoline** (DUFTON), 1892, T., 785.
- 2'-Amidoquinoline**, preparation of (EPHRAIM), 1891, A., 1509.
- 3'-Amidoquinoline** (RIEMERSCHMIED), 1883, A., 1148.
- 4'-Amidoquinoline** (HOOGWERFF and VAN DORP), 1892, A., 725.
- di*Amidoquinolines, α - and β -** (CLAUS and KRAMER), 1885, A., 908.
- Amidoquinones** (KEHRMANN), 1890, A., 756, 1265.
- Amidoquinoneimide** (MELDOLA), 1884, T., 161.
- p*-Amidoquinoxaline** and its salts (HINSBERG), 1886, A., 722.
- Amidoresorcinol** (FÈVRE), 1883, A., 733.
- di*Amidoresorcinol hydrochloride** (TYPKE), 1883, A., 917.
- Amidoresorcinoldisulphonic acid** (ULZER), 1889, A., 510.
- Amidoresorcinolsulphonic acid, α - and ν -** (BRUNNER and KRAEMER), 1884, A., 1354, 1355.
- p*-Amidoresorcinyldimethyl ether**, and its derivatives (BECHHOLD), 1889, A., 1155.
- 1-Amidosalicylic acid**, action of aniline on (LIMPRICHT and v. RECHENBERG), 1890, A., 158.
- 5-Amidosalicylic acid**, action of benzoic chloride on (DABNEY), 1884, A., 308.
- Amidostearic acid** [m. p. 63°] (GAUTIER and ETARD), 1884, A., 89.
- α -Amidostearic acid** [m. p. 221°] (HELL and SADOWSKY), 1891, A., 1336.
- o*-*di*Amidostilbene**, azo-dyes from (BISCHOFF), 1888, A., 1094.
- p*-*di*Amidostilbene** (BENDER and SCHULTZ), 1887, A., 268.
- di*Amidostilbene sulphide** (ANSCHÜTZ and SCHULTZ), 1889, A., 602.
- di*Amidostilbenesulphonic acid** (BENDER and SCHULTZ), 1887, A., 268.
- Amidostrychnine** (LOEBISCH and SCHOOP), 1886, A., 268.
- di*Amidostrychnine** (HANRIOT), 1883, A., 670.
- p*-Amidostyrene** (BERNTHSEN and BENDER), 1883, A., 70.
- m*-Amidostyryl methyl ketone** (v. MILLER and ROHDE), 1890, A., 1138.
- o*-Amidostyrylacrylic acid** (DIEHL and EINHORN), 1885, A., 1222, 1223.
- o*-Amidostyrylpropionic acid** (DIEHL and EINHORN), 1887, A., 485.
- m*-Amido-2-styrylpyridine** (SCHUFTAN), 1890, A., 1438.
- Amidosuccinic acid.** See Aspartic acid.
- di*Amidosuccinic acid** (CLAUS), 1883, A., 43.
- Amidosulphime dithiocarbamidodisulphinites** (TIEMANN), 1891, A., 557.
- p*-Amido-*o*-sulphobenzoic acid** (HEDRICK), 1888, A., 280.
- p*-Amido-*m*-sulphobenzoic acid** (FISCHER), 1892, A., 332.
- Amidosulphonic acids** (PELLIZZARI and MATTEUCCI), 1888, A., 1302; (KRAFFT and BOURGEOIS), 1892, A., 700.
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- Amidosulphonic acids, aromatic**, acetyl derivatives of (NIETZKI and BENCKISER), 1884, A., 1024.
- Amidoterebenthene** (PESCI and BETTELLI), 1887, A., 272; (PESCI), 1891, A., 1086.
- p*-Amidotetrahydro- α -naphthaquinoline** (BAMBERGER and STETTENHEIMER), 1891, A., 1259.
- di*Amidotetrahydronaphthylthiocarbamide** (BAMBERGER and BAMMANN), 1889, A., 783.

- p*-Amidotetrahydroquinoline (ZIEGLER), 1888, A., 609.
- Amidotetrahydroxybenzene hydrochloride (NIETZKI and SCHMIDT), 1889, A., 969.
- di*Amidotetrahydroxybenzene, and its derivatives (NIETZKI and BENCKISER), 1885, A., 780.
- Amidotetramethylbenzene (*isoduridine*, *tetramethylamidobenzene*) (NÖLTING and BAUMANN), 1885, A., 384, 893.
- m-di*Amidotetramethylbenzidine (LAUTH), 1892, A., 1222.
- Amidotetrazotic acid (THIELE), 1892, A., 1299.
- Amidotetretethylamidotriphenylmethane (FISCHER and SCHMIDT), 1884, A., 1316.
- μ -Amidothiazole- α -carboxylic acid (STEUDE), 1891, A., 743.
- μ -Amidothiazole-dicarboxylic acid (RUBLEFF), 1891, A., 224.
- Amidothiazoles, and their isomerides (TRAUMANN), 1889, A., 414.
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- μ -Amido- α -thiazylacetic acid (STEUDE), 1891, A., 743.
- Amidothienylacetic acid (BRADLEY), 1886, A., 1014.
- o*-Amidothiobenzamide derivatives (STEWART), 1892, A., 54.
- Amido-*m*- and -*p*-thiocyanocinnamic acids (ROTHSCHILD), 1890, A., 1123; 1891, A., 199.
- Amidothiiodiphenylamine (BERNTSEN), 1885, A., 259; 1886, A., 53.
- di*Amidothiiodiphenylamine (BERNTSEN), 1885, A., 259; 1886, A., 53.
- di*Amidothiiodiphenylmethylamine and its derivatives (BERNTSEN), 1885, A., 259.
- Amidotionaphthol (CLEVE), 1889, A., 155; (EKBOM), 1890, A., 995.
- Amidothiophen hydrochloride, and its derivatives (STADLER), 1885, A., 1204.
- di*Amidothymoquinone (ANSCHÜTZ and LEATHER), 1886, T., 725.
- di*Amidotolazinedicarboxylic acid (KEHRMANN), 1889, A., 1154.
- m*-Amido-*o*-tolidine (LOEWENHERZ), 1892, A., 852.
- 3:4-*di*Amidotoluene. See Toluene-*o*-diamine.
- c-tetra*Amidotoluene, and its sulphate (NIETZKI and RÜSEL), 1891, A., 192.
- penta*Amidotoluene (PALMER), 1889, A., 390.
- o*-Amidotoluene-*p*-azodimethylaniline (WALLACH), 1887, A., 41.
- p*-Amidotoluene-*o*-azodimethylaniline (WALLACH), 1887, A., 41.
- Amidotoluenesulphonic acids. See Tolidinesulphonic acid.
- di*Amidotoluenesulphonic acid (NIETZKI and POLLINI), 1890, A., 502.
- β -Amido-*p*-toluic acid (NOYES), 1889, A., 394.
- γ -Amido-*o*-toluic acid, phosphate of (HÖNIG), 1886, A., 242.
- ω -Amido-*m*-toluic acid (REINGLASS), 1891, A., 1345.
- m*-Amido-*p*-toluic acid (*m-homomanthranilic acid*) (NIEMENTOWSKI), 1888, A., 837; 1889, A., 1065; (NIEMENTOWSKI and ROZAŃSKI), 1888, A., 1088; (FILETI and CROSA), 1889, A., 495.
- di*Amido-*p*-toluic acids, 2:3-, 2:5-, and 3:5- (CLAUS and JOACHIM), 1892, A., 176.
- o*-Amido-*p*-toluonitrile (NIEMENTOWSKI), 1888, A., 837; (GLOCK), 1888, A., 1291.
- o*-Amido-*p*-toluoylamide (NIEMENTOWSKI), 1888, A., 837.
- di*Amido-*p*-tolyl ketone (LANGE and ZUFALL), 1892, A., 1460.
- m*-Amido-*o*-tolylacrylic acid (v. MILLER and ROHDE), 1890, A., 1140.
- m*Amido-*p*-(*o*) and -*p*-(*p*)-tolylamido-benzoic acid (HEIDENSLEBEN), 1891, A., 306.
- Amido-*p*-tolylazimidobenzene (WILLGERODT), 1892, A., 1322.
- m*-Amidotolyl-*p*-azoacetacetic acid (BAMBERGER), 1885, A., 158.
- 2-Amidotolyl-4-oxamic acid (SCHIFF and VANNI), 1890, A., 1125; 1891, A., 833; 1892, A., 599, 601, 1208.
- 2-Amidotolyl-4-oxamide and -oxanilide (SCHIFF and VANNI), 1891, A., 834; 1892, A., 602.
- Amidotolylurethane (SCHIFF and VANNI), 1892, A., 600; (SCHIFF), 1892, A., 1203.
- p*-Amidotriazobenzene (GRIESS), 1888, A., 826.
- m*-Amidotriazobenzoic acid (GRIESS), 1888, A., 826.
- 6-Amido-2:4:5-triethyl-*m*-diazine (WACHE), 1889, A., 684.
- Amidotriethylgallic acid (SCHIFFER), 1892, A., 716.
- Amidotriethylpyrogallol (SCHIFFER), 1892, A., 716.
- Amidotrihydroxynaphthalene (KEHRMANN), 1888, A., 940.
- Amidotrimethylbutylactic acid (WEIL), 1886, A., 1009.
- Amidotrimethyluracil (HAGEN), 1888, A., 582.

- Amido- and triamido-triphenylamine** (HEYDRICH), 1885, A., 1213; (HERZ), 1890, A., 1409.
- triAmidotriphenylarsine** (PHILIPS), 1886, A., 618.
- tetraAmidotriphenylbenzene** (MELLIN), 1890, A., 1423.
- p-Amidotriphenylcarbinol** (v. BAEYER and LÖHR), 1890, A., 1141, 1142.
- triAmidotriphenylcarbiuol**. See *p*-Rosaniline.
- 6-Amido-2:4:5-triphenyl-m-diazine** (WACHE), 1889, A., 684.
- Amidotriphenylethophenazonium hydr-oxide** (KEHRMANN and MESSINGER), 1892, A., 1109.
- o-Amidotriphenylmethane** (FISCHER and FRÄNKEL), 1888, A., 56.
- p-Amidotriphenylmethane** (v. BAEYER and LÖHR), 1890, A., 1141.
- diAmidotriphenylmethane**, preparation of (MAZZARA), 1885, A., 904; (ULLMANN), 1885, A., 1236.
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- triAmidotriphenylmethane**. See *p*-Leucaniline.
- Amidotriphenylphosphine oxide** (MICHAELIS and v. SODEN), 1884, A., 1180.
- Amidotruaxillic acids** (HOMANS, STELTZNER and SUKOW), 1891, A., 1496.
- Amidouracilcarboxylic acid** (KÖHLER), 1887, A., 128; (BEHREND), 1887, A., 920.
- δ-Amidovaleraldehyde** (WOLFFENSTEIN), 1892, A., 1484.
- γ-Amidovaleric acid** (TAFEL), 1886, A., 1008; 1887, A., 463; 1889, A., 961.
- γ-Amidovaleric anhydride** (TAFEL), 1889, A., 961.
- δ-Amidovaleric acid** (SCHOTTEN), 1888, A., 1105.
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- β-Amidoisovaleric acid** (BREDT), 1883, A., 176.
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- Amido-p-xylene**. See *p*-Xylidine.
- diAmidoxylylene**. See Xylylenediamine.
- diAmido-m-xylenesulphonic acid** and its salts (LIMPRICHT), 1885, A., 1234.
- Amido-m-xyleneol** and its hydrochloride (PFAFF), 1883, A., 918.
- Amido-p-xyleneol** (SUTKOWSKI), 1887, A., 668.
- diAmido-p-xylidine** (WITT, NÖLTING and FOREL), 1889, A., 604.
- Amidulin** (BRÜKNER), 1884, A., 575.
- Amine hydrochlorides**, dissociation of, in solution (MULLER), 1890, A., 684.
- Amine salts**, absence of rotatory power in (LE BEL), 1890, A., 228.
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- Amine-ethylenediaminechloropurpureocobalt salts** (JÖRGENSEN), 1890, A., 954.
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- Ammelide** (*melanurenic acid*) (BAMBERGER), 1883, A., 907, 1086; (STRIEGLER), 1885, A., 1194; 1886, A., 435; (RATHKE), 1886, A., 217; (KLASON), 1886, A., 523.
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- 4-Anilido-2:6-lutidine (CONRAD and EPSTEIN), 1887, A., 501.
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- 6-Anilido-5-methyl-2:4-diethyl-*m*-diazine (v. MEYER), 1889, A., 685.
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- α -Anilidomethylsuccinic acid (α -anilidopyrotartaric acid), its derivatives and condensation-product (SCHILLER-WECHSLER), 1885, A., 900.
- β -Anilidomethylsuccinic acid (REISSERT), 1888, A., 694.
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- α -Anilido- α -naphthatozazine (EICKER), 1891, A., 471.
- β -Anilidonaphthoic acid and its anilide (SCHÖPFF), 1892, A., 1476.
- 2'-Anilido- β -naphthol (CLAUSIUS), 1890, A., 629.
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- 3-Anilido- α -naphthyl*di*thiobiazolone (FREUND), 1892, A., 508.
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- α -Anilidopalmitic acid (HELL and JORDANOFF), 1891, A., 821.
- Anilidoperezone (MYLIUS), 1885, A., 778.
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- β -Anilidophenylacrylanilide (KNORR), 1888, A., 1112.
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- α -Anilidophenylcrotonic acid and its amide (PEINE), 1884, A., 1345.
- α -Anilidophenylcrotononitrile (PEINE), 1884, A., 1345; (v. MILLER and PLÖCHL), 1892, A., 1194.
- 1-Anilido-5-phenyl-3-diphenylpyrrolidone (JAPP and KLINGEMANN), 1890, T., 683.
- α -Anilido- α -phenylpropionamide and α -anilido- α -phenylpropionitrile (JACOBY), 1886, A., 800.
- Anilidophthalaminic acid (HÖTTE), 1887, A., 669.
- Anilidopipitzaholic acid. See Anilidoperezone.
- α -Anilidopropionamide (TIEMANN and STEPHAN), 1883, A., 199; (STEPHAN), 1887, A., 143.
- α -Anilidopropionic acid and its derivatives (TIEMANN and STEPHAN), 1883, A., 199; (ERLENMEYER and LIPP), 1883, A., 992; (STEPHAN), 1887, A., 143; (NASTVOGEL), 1889, A., 1012; 1890, A., 1159.
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- β -Anilidopropionic acid (*phenyl- β -alanine*) (BISCHOFF and MINTZ), 1892, A., 1342.
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- α -Anilidopropionitrile (TIEMANN and STEPHAN), 1883, A., 199; (ERLENMEYER and LIPP), 1883, A., 992; (STEPHAN), 1887, A., 142.
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β -Anilidopropylphthalimide (GOLDENRING), 1890, A., 976.

γ -Anilidopropylphthalimide (SEITZ), 1891, A., 1473.

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α -Anilidostearic acid (HELL and SADOWSKY), 1891, A., 1336.

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***o*-Anilidotolylcarbamide** (LEUCKART), 1890, A., 760.

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4'-Anilido-1:3:2'-trimethylquinoline (CONRAD and LIMPACH), 1888, A., 503.

α -Anilidoisovaleramide (v. MILLER and PLÖCHL), 1892, A., 1192.

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- p*-**Anisyl pentadecyl ketone** (KRAFFT), 1888, A., 1087.
- o*-**Anisylacetamide** (*methoxybenzylacetamide*) (GOLDSCHMIDT and ERNST), 1890, A., 1411.
- o*-**Anisylamine** [b.p. 224° at 724 m.m.] (GOLDSCHMIDT and ERNST), 1890, A., 1411.
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- o*-**Anisylcarbamide** (*methoxybenzylcarbamide*) (GOLDSCHMIDT and POLONOWSKA), 1887, A., 1041; (GOLDSCHMIDT and ERNST), 1890, A., 1411.
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 substitution in (NÖLTING), 1888, A., 270.
 with mixed and substituted radicles and their derivatives (KANONNIKOFF), 1886, A., 145.
 relation between hydrazides and (BERNTSEN), 1888, A., 469.
 of chrysamine dyes from (TELLER and RACKOWSKI), 1892, A., 1095.
 of cyanocamphor (MINGUIN), 1892, A., 1343.

AZO-COMPOUNDS—

Azo-compounds of the fatty series, constitution of (CURTIUS), 1889, A., 586.

of β -naphthol and β -naphthylamine, constitution of (MELDOLA), 1889, A., 404.

mixed (BAMBERGER), 1885, A., 157; (BAMBERGER and CALMAN), 1886, A., 62; (MEYER), 1888, P., 79; (BEYER and CLAISEN), 1888, A., 827; (CLAISEN), 1892, A., 710.

constitution of certain so-called (JAPP and KLINGEMANN), 1888, T., 519.

secondary and tertiary (MELDOLA), 1883, T., 425; 1881, T., 106; 1885, T., 657.

Azo-compounds, amido- (GOLDSCHMIDT and ROSELL), 1890, A., 614.

cryoscopic experiments with (GOLDSCHMIDT), 1891, A., 1211.

action of hydrochloric acid on (WALLACH and KÖLLIKER), 1884, A., 1014.

of the three xylenes (NÖLTING and FOREL), 1886, A., 58; (ZINCKE and JAENKE), 1888, A., 469.

secondary, preparation of (HENRIQUES), 1885, A., 168.

Azo-compounds, o-amido- (NÖLTING and WITT), 1884, A., 742; (ZINCKE), 1886, A., 236; (ZINCKE and LAWSON), 1886, A., 795; 1887, A., 731; 1888, A., 159; (GOLDSCHMIDT and POLTZER), 1891, A., 839.

Azo-compounds, nitroso-, constitution of (WILGERODT), 1892, A., 1453.

Acetamidobenzeneazacetanilide (MIXER), 1881, A., 301.

Acetamidobenzeneazoaniline (NIETZKI), 1884, A., 1016.

Acetamidobenzene-m-azodimethylaniline (WALLACH), 1887, A., 41.

Acetamidobenzene-m-diazopiperidide (WALLACH), 1887, A., 131.

Acetamidobisazobenzene (NIETZKI and DIESTERWEG), 1888, A., 1082.

p-Acetamidotoluene-o-azodiethylaniline (WALLACH), 1887, A., 41.

4:3:1-Acetazimidotoluene (BOESSENECK), 1886, A., 874.

Acetoneazobenzene. See Pyruvaldehydephenylhydrazine.

Acetonebisazobenzene (CLAISEN), 1892, A., 710.

Acetophenoneazonaphthol (KLINGEL), 1886, A., 61.

AZO-COMPOUNDS—

Aceto-p-toluidide-o-diazodiethylamide (WALLACH), 1887, A., 137.

Aceto-p-toluidide-o-diazonitroethane (WALLACH), 1887, A., 137.

Aceto-p-toluidide-o-diazopiperidide (WALLACH), 1887, A., 138.

Acetylbenzeneazo-p-cresol (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.

Acetylbenzeneazo- ψ -cumaldehyde (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.

Acetyl-m-chlorobenzene-p-azo-p-cresol (GOLDSCHMIDT and POLLAK), 1892, A., 975.

Acetyl-p-chlorobenzeneazo-p-cresol (GOLDSCHMIDT and POLLAK), 1892, A., 974.

Acetyl- ψ -cumeneazophenol (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.

Acetylenedicarboxylodiazooacetic acid (BECHNER), 1889, A., 694.

Acetyl-o-nitrohydroxyazobenzene (GOLDSCHMIDT and BRUBACHER), 1891, A., 1211.

Acetylphenolbisazotoluene, 1:2:4- (GOLDSCHMIDT and POLLAK), 1892, A., 976.

Acetylphenylazoacetone (GOLDSCHMIDT and POLLAK), 1892, A., 977.

Acetyl-p-tolueneazo-p-cresol (GOLDSCHMIDT and POLLAK), 1892, A., 974.

Acetyl-p-tolueneazophenol (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.

Alkyldiazoamides, synthesis of (MELDOLA and STREATFIELD), 1890, T., 785.

mixed, nature of the combination between (MELDOLA and STREATFIELD), 1890, T., 798.

Alkyldiazoamido-compounds, synthesis of heterogeneous mixed (MELDOLA), 1889, T., 610; P., 127.

Anhydrosazohemipinic acid (GRÜNE), 1887, A., 49.

Anilidobenzeneazobenzenepolysulphonic acids, preparation of (ANON.), 1884, A., 237.

Anisenzylazoximebenzenyl (MILLER), 1890, A., 145.

Anisenzylazoximecarbonyl (MILLER), 1890, A., 145.

Anisenzylazoximeethenyl (MILLER), 1890, A., 145; (HOCHHEIM), 1890, A., 1265.

AZO-COMPOUNDS—

- Anisenzylazoximepropenyl- ω -carboxylic acid** (MILLER), 1890, A., 115; (HOCHHEIM), 1890, A., 1265.
- Azimides and ψ -Azimides** (ZINCKE and CAMPBELL), 1890, A., 787.
- Azimidobenzene** (GRIESS), 1883, A., 181.
- Azimidobenzene, brom- and trichlorobrom-** (ZINCKE and ARZBERGER), 1889, A., 501.
- Azimidobenzoic acid** (GRIESS), 1883, A., 57.
- Azimidodibromodiamidodiphenyl** (SCHULTZ), 1884, A., 903.
- Azimidobenzene compounds** (ZINCKE and ARZBERGER), 1889, A., 501; (ZINCKE and CAMPBELL), 1890, A., 787.
- constitution of (GRIESS), 1883, A., 56; (NÖLTING and AET), 1888, A., 273.
- formula of (ZINCKE), 1890, A., 990.
- Azimidophenyl- α -naphthylamine, nitr-** (HEIM), 1888, A., 1097.
- Azimidophenyl- β -naphthylamine, nitr-** (HEIM), 1888, A., 488.
- Azimidotoluene** (NÖLTING and AET), 1888, A., 274.
- 2:3-Azimido-*p*-toluic acid** (CLAUS and BEYSEN), 1892, A., 177.
- Azimido-*p*-[*p*]toluidobenzoic acid** (HEIDENSELEBEN), 1891, A., 306.
- Azimidouramidobenzoic acid** (GRIESS), 1883, A., 57.
- Azoacetanilide** (MIXTER), 1884, A., 301.
- Azoacetoaceticbenzoic acid** (GRIESS), 1885, A., 788.
- Azoamidobenzene, *m*-nitr-**. See Benzeneazoaniline, *m*-nitro.
- Azoamidobenzenesulphonic acids**. See Benzeneazoanilinesulphonic acids.
- Azoamidonaphthalenebenzenesulphonic acids**. See Sulphobenzeneazonaphthylaminesulphonic acids.
- p*-Azoaniline**. See Benzeneazoaniline, amido-.
- Azobenzene, spectrum of** (HARTLEY), 1887, T., 176.
- colour of (ARMSTRONG), 1892, P., 194.
- action of heat on the vapour of (FERKO), 1887, A., 572.
- action of benzaldehyde on (BARSILOWSKY), 1886, A., 148.
- action of bromine on (ARMSTRONG), 1892, P., 194.
- nitration of (JANOVSKY), 1885, A., 789.
- ethylxanthate and disulphide (LEUCKART), 1890, A., 605.

AZO-COMPOUNDS—

- Azobenzene, substitution products of** (JANOVSKY), 1883, A., 324; 1884, A., 1145.
- amido-. See Benzeneazoaniline.
- diamido-. See Benzeneazophenylene-diamine.
- p*-diamido-. See Benzeneazoaniline, amido-.
- triamido-. See Benzeneazophenylene-diamine, amido-.
- bromo-derivatives (JANOVSKY and ERB), 1887, A., 478; (JANOVSKY), 1887, A., 663.
- o*-brom- (JANOVSKY), 1886, A., 795; (JANOVSKY and ERB), 1886, A., 1024.
- m*-brom- (JANOVSKY and ERB), 1886, A., 1024; 1887, A., 478.
- p*-brom- (JANOVSKY and ERB), 1887, A., 478; (JANOVSKY), 1887, A., 663; (NÖLTING and WERNER), 1891, A., 211.
- tetra- and hexa-brom-, disulphochlorides (RONATZ), 1883, A., 479.
- bromonitro-derivatives of (JANOVSKY), 1887, A., 478.
- bromonitr- (WILLGERODT), 1888, A., 949.
- bromonitroso- (WILLGERODT), 1888, A., 949.
- p*-chlor-, and its derivatives (HEUMANN and MENTHA), 1886, A., 874; 1887, A., 247.
- allo-*m*-chlorodibromo-*o*-nitroso- (WILLGERODT and ELLON), 1891, A., 1361.
- chloro-*p*-nitr- (DAHME and GASIOROWSKI), 1887, A., 248.
- m*-chloro-*o*-nitr- (WILLGERODT and FERKO), 1888, A., 830.
- allo-*m*-chloro-*o*-nitr- (WILLGERODT and ELLON), 1891, A., 1361.
- chloro-*d*-nitr-, and chloro-*r*-nitr- (WILLGERODT and ELLON), 1891, A., 1361.
- p*-chloro-*d*-nitr-, *p*-chloro-*r*-nitr-, and *p*-chloro-*t*-nitr- (WILLGERODT), 1890, A., 1118.
- p*-chloronitronitroso-derivatives (WILLGERODT), 1890, A., 1118.*
- m*-chloro-*o*-nitroso- (WILLGERODT and FERKO), 1888, A., 830.
- p*-chloro-*d*-nitroso- (WILLGERODT), 1890, A., 1119.
- p*-cyan- (MENTHA and HEUMANN), 1887, A., 248.
- iod- (NÖLTING and WERNER), 1891, A., 211.
- d*-iod-, colour of (LING), 1892, P., 198.

AZO-COMPOUNDS—

- Azobenzene**, nitro-derivatives of (JANOVSKY), 1883, A., 867; 1887, A., 663.
 nitr- (JANOVSKY and ERB), 1887, A., 478.
 reduction of (JANOVSKY), 1885, A., 789.
 o-nitr- (JANOVSKY), 1886, A., 794.
 p-nitr- (JANOVSKY and ERB), 1885, A., 894.
 dinitro-compounds (JANOVSKY), 1886, A., 794.
 dinitr-, reduction of (JANOVSKY), 1885, A., 789.
 o- and m-trinitr- (KLINGER and ZUURDEEG), 1890, A., 762.
 p-trinitr-, and o-p-tetranitr- (WILLGERODT and HERMANN), 1890, A., 1259.
 dinitro-m- and -p-amido- (ODDO), 1891, A., 554.
 nitronitroso- (WILLGERODT and HERMANN), 1889, A., 1161.
 reduction of (WILLGERODT), 1892, A., 1322.
 nitrodinitroso- (WILLGERODT and FERKO), 1888, A., 829; (WILLGERODT), 1891, A., 689.
 dinitronitroso-, conversion of trinitrohydrazobenzene into (FREUND), 1889, A., 977.
 dinitrodinitroso-, and trinitronitroso- (WILLGERODT and HERMANN), 1890, A., 1259.
 dinitroso- (WILLGERODT and FERKO), 1888, A., 830; (WILLGERODT and HERMANN), 1889, A., 1160; (KEHRMANN and MESSINGER), 1892, A., 889; (WILLGERODT), 1892, A., 1079; (KEHRMANN), 1892, A., 1198.
 preparation of (WILLGERODT), 1892, A., 1321.
Azobenzeneazo-p-chloronitrobenzene, trinitronitroso- (WILLGERODT), 1890, A., 1119.
Azobenzeneazo-p-cresol (NÖLTING and KOHN), 1884, A., 901.
Azobenzeneazonaphthol, m-nitr- (nitrobenzeneazobenzeneazonaphthol) (MELDOLA), 1884, T., 113.
Azobenzeneazo-β-naphthylethylamine (HENRIQUES), 1885, A., 168.
Azobenzene-o-carboxylic acid, and its p-bromo- and p-chloro-derivatives (PAAL), 1892, A., 67.
Azobenzene-p-carboxylic acid (MENTHA and HEUMANN), 1887, A., 248.

AZO-COMPOUNDS—

- Azobenzene-p-chlorazobenzene**, nitro-trinitroso- (WILLGERODT and BOHM), 1891, A., 907.
 trinitronitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BOHM), 1891, A., 907.
Azobenzenechlorobenzamide (LIMPRICHT), 1891, A., 1037.
Azobenzene-m-chlorophenylhydrazine, trinitr- and trinitronitroso- (CURTIUS and LANG), 1892, A., 455, 456.
Azobenzene-p-chlorophenylhydrazine, tetranitr- (WILLGERODT and BOHM), 1891, A., 907.
 trinitronitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BOHM), 1891, A., 907.
Azobenzene cyanacetophenone (HALLER), 1889, A., 873.
Azobenzenediazine sulphite (GRIESS), 1883, A., 181.
Azobenzenedisulphonamides, tetra- and hexa-brom- (RODATZ), 1883, A., 479, 480.
Azobenzene-3:3-disulphonamide (LIMPRICHT and MEYER), 1892, A., 973.
Azobenzenedisulphonic acid (GRIESS), 1883, A., 182.
 from "acid-yellow" (EGER), 1889, A., 709.
Azobenzenedisulphonic acids, constitution of (RODATZ), 1883, A., 477.
 brominated, and their derivatives (RODATZ), 1883, A., 478.
Azobenzene-m-hydroxybenzoic acid (LIMPRICHT), 1891, A., 1037.
Azobenzeneinduline, amido- (FISCHER and HEPP), 1891, A., 1046.
Azobenzene-o-methylcyanacetophenone (HALLER), 1889, A., 874.
Azobenzenenitrolic acids (JANOVSKY and ERB), 1885, A., 894.
Azobenzene phenylenediaminebenzene (GRIESS), 1883, A., 1102.
Azobenzene phenylenediamine-p-toluene, α- and β- (GRIESS), 1883, A., 1102, 1103.
Azobenzene phenylhydrazine, chloronitro- and nitro-derivatives of (WILLGERODT and MÜHE), 1892, A., 455.
 trinitronitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BOHM), 1891, A., 907.
Azobenzene phenylthiocarbamide (BERJU), 1884, A., 1149.
Azobenzene-β-resorcylic acid (LIMPRICHT), 1891, A., 1037.

AZO-COMPOUNDS—

- Azobenzenesalicylaldehyde** (TUMMELEY), 1889, A., 780.
- Azobenzenesalicylamide** (TUMMELEY), 1889, A., 780.
- Azobenzenesalicylic acid** and its derivatives (LIMPRICHT), 1891, A., 1036.
- Azobenzenesalicylic alcohol** (TUMMELEY), 1889, A., 780.
- Azobenzenesulphinic acids** (LIMPRICHT), 1885, A., 984; (BAUER), 1885, A., 1139.
- Azobenzenesulphonic acid**, nitrodi-nitroso- (WILLEROUD and FERRO), 1888, A., 829.
- Azobenzene-*p*-sulphonic acid**, substitution products of (JANOVSKY), 1883, A., 1101.
- p*-amido- (GRIESS), 1883, A., 181, and its salts (JANOVSKY), 1883, A., 867, 1101.
- m*-brom- (JANOVSKY and ERB), 1887, A., 478.
- p*-brom-, and its salts (JANOVSKY), 1884, A., 1146; (JANOVSKY and ERB), 1887, A., 478.
- chlor-, and its derivatives (MENTHA and HEUMANN), 1887, A., 248.
- dichlor-, salts of (CALM), 1883, A., 341.
- o*-nitr- (LERCH), 1889, A., 881.
- p*-nitr-, and its salts (JANOVSKY), 1883, A., 867.
- dinitr- and its salts (JANOVSKY), 1884, A., 1145.
- Azobenzenesulphonic acids** and their salts and nitro-compounds (JANOVSKY), 1883, A., 324.
- Azobenzenethiosulphonic acids** (LIMPRICHT), 1885, A., 984; (BAUER), 1885, A., 1139.
- Azobenzoyl peroxide** (BECKMANN), 1889, A., 980.
- p*-**Azobenzoyldisulphonic acid** (MOHR), 1884, A., 69.
- Azobenzil** (*benzilam*), Zinin's (JAPP), 1883, T., 11; 1884, A., 313; (HENIUS), 1885, A., 1067.
- Azobenzoic acids**, action of alcohol on (REMSSEN and GRAHAM), 1889, A., 975.
- p*-**Azobenzoic acids**, *mono*- and *di*-nitro- (RODZIANKO), 1889, A., 141.
- Azobenzoylcarbinol** *iso*. for isatin (GEMPERT), 1886, A., 342.
- Azobenzylethylamidophenol** (LELLMANN and BOYE), 1890, A., 1146.
- p*-**Azobenzylidisulphonic acid**. See Toluenazotoluene-di-*o*-sulphonic acid.

AZO-COMPOUNDS—

- o*-**Azo-*p*-bromacetanilide** (MATTHIESSEN and MIXTER), 1887, A., 251.
- Azocamphene** (TANRET), 1888, A., 729.
- Azocarboxylic acid** (OST), 1883, A., 792.
- Azocresol-compounds** (NOLLING and KOHN), 1884, A., 900.
- Azo-*p*-cresol** (LIEBERMANN and v. KOSTANECKI), 1884, A., 736.
- Azocumene** (POSPECHOFF), 1886, A., 459.
- Azo- ψ -cumene** (ψ -*cumene* *aceto- ψ -cumene*) (POSPECHOFF), 1888, A., 140.
- o*-amido- (ZINCKE and JAENKE), 1888, A., 469.
- Azocumic acid**, derivatives of (ALEXÉEFF), 1885, A., 390.
- Azocumic chloride** (ALEXÉEFF), 1890, A., 891.
- Azocymene** (*cymeneazocymene*) (SCHUMOFF), 1888, A., 469.
- Azodiacetamidotoluene** (BANKIEWICZ), 1889, A., 865.
- Azodibenzenephenylenediamine** (*benzazobenzeneazobenzene-*o*-phenylenediamine*) (GRIESS), 1883, A., 1103.
- o*-**Azodibenzylamine** (LELLMANN and ARNOLD), 1892, A., 316, 890.
- Azodicarbonamide** and its salts (THIELE), 1892, A., 1297, preparation of (THIELE), 1892, A., 1430.
- Azodicarboxylic acid** (THIELE), 1892, A., 1429.
- Azodihydrobenzene**, *p*-*dinitr*- (WILLGERODT), 1890, A., 1116.
- Azodihydroxyquinoline** (BISCHOFF), 1889, A., 519.
- Azodimethoxyphenylpyrazole** (KNORR and BLANK), 1884, A., 1380.
- Azodimethylquinol** and its *dibromo*-derivatives (BAESSLER), 1884, A., 1330; 1887, A., 364.
- Azoethylbenzenes**, *o*- and *p*-, and their reduction (SCHULTZ), 1884, A., 993.
- Azoimide** (*nitrogen hydride; hydrazoic acid*) (CURTIUS), 1891, A., 56; 1892, A., 112; (MENDELEEFF), 1891, A., 394; (CURTIUS and RADENHAUSEN), 1891, A., 524, preparation of (MILMONT), 1891, A., 262.
- formation of (MILMONT and HAWKINS), 1892, P., 133.
- formation of, from *d*-nitrotriazobenzene (NOLLING and GRAND-MOULIN), 1891, A., 1443.

AZO-COMPOUNDS—

- Azoimide** (*azirone hydride*; *hydrazoic acid*), synthesis of (WELCHER), 1892, A., 1151.
 thermochemistry of (BACH), 1892, A., 933.
 heat of formation of (BERTHELOT and MATIGNON), 1892, A., 261.
 action of, on living organisms (LOEW), 1892, A., 90.
- Azoisatin** (CURTIUS and LANG), 1892, A., 451.
- Azomalonicbenzoic acid** (GRIESS), 1885, A., 788.
- Azomesitylene** (SCHULTZ), 1884, A., 904.
- Azomethoxyphenylethylpyrazole** (KNORR and BLANK), 1884, A., 1380.
- Azo-*p*-methoxytoluene** (SCHLÜßER), 1891, A., 1232.
 amido- (LIMPACH), 1889, A., 499.
- Azo-2'-methylindole** (WAGNER), 1888, A., 284.
- Azomethylphenyl** (*benzeneazomethane*) (TAFEL), 1885, A., 1061.
- Azo-1-methylquinoline** (NÖLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- Azo- α -naphthalene** (*naphthaleneazo- α -naphthalene*) and its derivatives (NIETZKI and GOLL), 1885, A., 545; 1886, A., 245.
 preparation and reduction of (FRIEDLÄNDER), 1889, A., 607.
 amido-, spectrum of (HARTLEY), 1887, T., 190.
 melting-point of (NIETZKI and GOLL), 1885, A., 545.
 formation of pyridine from (v. BUCHKA and SPRAGUE), 1889, A., 728.
- Azo- β -naphthalene**, derivatives of (NIETZKI and GOLL), 1886, A., 714; (MELDOLA and EAST), 1888, T., 460; P., 47.
 amido- (NIETZKI and GOLL), 1886, A., 714.
 spectrum of (HARTLEY), 1887, T., 191.
 derivatives of (ZINCKE and LAWSON), 1888, A., 159.
- β - α -Azonaphthalene** and its amido-compound (NIETZKI and GÖTTIG), 1887, A., 590.
- Azonaphthalenesalicylic acids**, α - and β - (GEBEK), 1889, A., 780.
- o*-Azo- α -naphthol compounds** (NÖLTING and GRANDMOUGIN), 1891, A., 1074.

AZO-COMPOUNDS—

- Azo- β -naphthol compounds** containing acid radicles, reduction of (MELDOLA and MORGAN), 1889, T., 117.
 acetyl derivatives of (MELDOLA), 1888, A., 487.
 alkyl derivatives of (MELDOLA and MORGAN), 1889, T., 603.
 benzoyl derivatives of (MELDOLA and MORGAN), 1889, T., 114.
- Azonaphthol-dyes**, constitution of (LIEBERMANN), 1884, A., 609.
- Azonaphthols** (MELDOLA and MORGAN), 1889, T., 603; P., 127.
- Azo- β -naphthylphenylamine** (ZINCKE and LAWSON), 1887, A., 730; (ZINCKE), 1890, A., 990.
- Azonitrobenzeneacetylsalicylic acid** (GEBEK), 1889, A., 780.
- Azonitrolic acids**, reduction of (JANOVSKY), 1885, A., 789.
- Azonitromethanebenzoic acid** (GRIESS), 1885, A., 788.
- Azo-opianic acid**. See *o*-Amido-hemipinic anhydride.
- m*-Azophenetol** (BUCHSTAB), 1884, A., 1147.
- o*-Azophenol**, trichlor- (BOHN and HEUMANN), 1884, A., 1015.
- p*-Azophenol** and its sulphonic acid (BOHN and HEUMANN), 1883, A., 583.
- Azophenols**, behaviour of, towards various reagents (BOHN and HEUMANN), 1884, A., 1014.
- Azo-*o*-phenoxyacetic acid** and its salts (THATE), 1884, A., 1170.
- Azophenylacetic acid** and its salts (WITTENBERG), 1885, A., 661.
- Azophenylacetacetamide** (LEUCKART and HOLTZAPFEL), 1889, A., 864.
- Azophenylallyl** (*benzeneazopropylene*) (FISCHER and KNOEVENAGEL), 1887, A., 933.
- Azophenylene**. See Phenazine.
- Azophenylenediaminebenzene-*m*-benzoic acid** (GRIESS), 1883, A., 1103.
- m*-Azophenylglyoxylic acid** and its salts (THOMPSON), 1883, A., 998.
- Azophenylhydrazine compounds** (WILLGERODT), 1890, A., 1118.
- Azophthalic acid**, action of stannous chloride on (CLAUS and HEMMANN), 1883, A., 1126.
- Azoresorcinol** and its derivatives (BRUNNER and KRAEMER), 1884, A., 1333; (BRUNNER), 1885, A., 776.

AZO-COMPOUNDS—

Azoresorufin and its derivatives (BRUNNER and KRAEMER), 1884, A., 1333, 1354; (BRUNNER), 1885, A., 776.

dimethyl ether (KRAEMER), 1884, A., 1341.

Azoresorufylhydrochloride (BRUNNER and KRAEMER), 1884, A., 1334.

Azosulphimecarbohydrosulphides (TIEMANN), 1891, A., 557.

Azo-*p*-sulphobenzene- δ -diamidobenzoic acid (GRIESS), 1883, A., 184.

Azo-*p*-sulphobenzenephenylenediamine (*phenylenediamineazobenzenesulphonic acid*) (GRIESS), 1883, A., 1103.

Azo-*p*-sulphobenzenephenylenediaminebenzene (*benzenazophenylenediamineazobenzenesulphonic acid*) (GRIESS), 1883, A., 1103.

Azosulphobenzenetoluenediamine.

See Tolylenediamineazobenzenesulphonic acid.

Azoterephthalic acid (HOMOLKA and LÖW), 1886, A., 702.

Azotetrahydro- α -naphthalene, *ar-amido-* (BAMBERGER and LENG-FELD), 1890, A., 1305.

Azotoline (FISCHER and HEPP), 1891, A., 1046.

***o*-Azotoluene** (SCHULTZ), 1884, A., 903; (POSPECHOFF), 1888, A., 825.

o-amido-, oxidation of (ZINCKE), 1886, A., 236.

nitro-derivatives of (POSPECHOFF), 1889, A., 501.

***m*-Azotoluene**, *dinitro-* (v. BUCHKA and SCHACHTEBECK), 1889, A., 701.

***p*-Azotoluene** (PIERSON and HERMANN), 1883, A., 915; (JANOVSKY), 1889, A., 250.

substitution products of (JANOVSKY and ERB), 1887, A., 479; (JANOVSKY and REIMANN), 1888, A., 686.

amido-, and its derivatives (NÖLTING and WITT), 1884, A., 742.

o-bromo-, *m*-bromo-, and *di-m*-bromo- (JANOVSKY and REIMANN), 1888, A., 686.

chloro- (MENTHA), 1887, A., 248.

nitro-derivatives of (JANOVSKY and ERB), 1887, A., 479; (JANOVSKY), 1889, A., 251; 1890, A., 140.

***m-p*-Azotoluene** ZINCKE and LAWSON, 1886, A., 795.

Azotoluenes (JANOVSKY), 1890, A., 140.

trinitro-, isomerism of HANTZSCH and WERNLE, 1890, A., 350.

AZO-COMPOUNDS—

***o*-Azotoluene-*p*-disulphonamide** (HELLE), 1892, A., 1468.

Azotoluenedisulphonic acids and their derivatives (KORNATZKI), 1884, A., 71.

Azo-*p*-toluenephenylenediaminebenzene (GRIESS), 1883, A., 1103.

Azo-*p*-toluenephenylenediamine- β -naphthalene (GRIESS), 1883, A., 1103.

***p*-Azotoluene-*m*-sulphonic acid** (JANOVSKY), 1888, A., 370.

o-bromo- (JANOVSKY and REIMANN), 1888, A., 686.

Azotoluidine and its salts (LAMPRICTH), 1885, A., 975; (GRAEFF), 1885, A., 1128.

***o* Azo-*o*-toluidine** (GREEN and LAWSON), 1891, T., 1016.

Azo-*o*-toluquinoline. See Azo-1-methylquinoline.

Azotolyl (BARSIŁOWSKY), 1888, A., 140.

Azoxazolecarboxylic acid (SÖDERBAUM), 1891, A., 827, 1184; (WOLFF and GANS), 1891, A., 896.

Azoximes (TIEMANN and KRÜGER), 1884, A., 1325; (TIEMANN), 1885, A., 895; 1890, A., 41, 140, 141, 253; 1891, A., 538; 1892, A., 135, 317.

***p*-Azoxyacetanilide** (MIXTER), 1884, A., 301.

Azoxy-*p*-acetotoluidide (BANKIEWICZ), 1889, A., 865.

***p*-Azoxyaniline** and its derivatives (MIXTER), 1884, A., 301.

Azoxybenzanilide, *o*- and *m*- (MIXTER), 1884, A., 301.

***p*-Azoxybenzanilide** (MIXTER), 1884, A., 666.

Azoxybenzene, Klinger's method of preparing (MOLTSCHANOWSKI), 1883, A., 180.

resolution of (FRISWELL and GREEN), 1885, T., 923.

***m*-dichloro-** (SCHULTZ), 1884, A., 903. chloronitronitroso- (WILLGERODT and MÜHE), 1892, A., 455.

***p*-chlorodinitroso-** (WILLGERODT and BÖHM), 1891, A., 905.

nitr- (JANOVSKY and ERB), 1887, A., 479, 664.

***m*-dinitro-** KLINGER and PIESCHKE, 1886, A., 53.

***o*- and *m*-trinitro-** (KLINGER and ZUURDEEG), 1890, A., 761.

Azoxybenzenesulphonic acids, and their salts (LAMPRICTH), 1885, A., 981.

AZO-COMPOUNDS—

- Azoxybenzotoluidide** (MIXTER), 1884, A., 666.
- p*-**Azoxybenzoylformic acid** (ENGLE and ZIEGLER), 1889, A., 596.
- o*-**Azoxybenzylethylaniline** (LEHMANN and BOYLE), 1890, A., 1116.
- p*-**Azoxy-*o*-dichlorostilbene** (WITT), 1892, A., 444.
- Azoxydiphenylamine** (FISCHER and WACKER), 1888, A., 1286.
- Azo-*o*-xylene**, 1:2:3- (NÖLTING and STRICKER), 1889, A., 135.
- Azo-*m*-xylene**, 1:3:4- (NÖLTING and STRICKER), 1889, A., 136.
- Azo-*p*-xylene**, 1:4:2- (SAMANOFF), 1883, A., 789; (NÖLTING and STRICKER), 1889, A., 136.
- m-p*-**Azoxylyene** (ZINCKE and JAENKE), 1888, A., 470.
- Azo-xylenes** and colouring matters derived therefrom (NÖLTING and STRICKER), 1889, A., 135.
- amido- (NÖLTING and FOREL), 1886, A., 58.
- Azo-*m*-xylenedisulphonic acid** (1:3:4:6-) and its salts (JACOBSEN and LEDDERBOGE), 1883, A., 593.
- Azoxy-*p*-methoxytoluene** (BRASCH and FREYSS), 1891, A., 1231.
- Azoxymethylethylisooxazole** (HARRIOT), 1892, A., 79.
- Azoxy-1-methylquinoline** (NÖLTING and TRAUTMANN), 1891, A., 328.
- Azoxymethylquinolines** (NÖLTING and TRAUTMANN), 1892, A., 727, 729.
- α*-**Azoxy-naphthalene-*α*-sulphonic acid** and its salts (ALEX.), 1886, A., 555.
- α*-**Azoxy-*β*-naphthylamine** (HARDEN), 1890, A., 631.
- p*-**Azoxyphenetol** (KINZEL), 1892, A., 159.
- Azoxyphenol ethers** (GATTERMANN and RITSCHKE), 1890, A., 1119.
- p*-**Azoxyphenol** (FISCHER and WACKER), 1888, A., 1286.
- Azoxy-*o*-phenoxyacetic acid** (THATE), 1884, A., 1170.
- Azoxypropylbenzoic acid** (WIDMAN), 1883, A., 330.
- Azoxyisopropylbenzoic acid** (ALEX-ÉEFF), 1885, A., 390.
- Azoxyterephthalaldehydic acid** (HOMOLKA and LÖW), 1886, A., 701.
- Azoxyterephthalic acid** (HOMOLKA and LÖW), 1886, A., 702.
- “**Azoxytoluene**” [Petrieff’s] (POSPECHOFF), 1888, A., 826.
- o*-**Azoxytoluene** (KLEINER and PITSCHKE), 1886, A., 53; (GUTERMANN), 1887, A., 932.

AZO-COMPOUNDS—

- m*-**Azoxytoluene** (V. BUCHKA and SCHACHTEBECK), 1889, A., 701.
- Azoxytoluenes** (JANOVSKY), 1890, A., 140.
- two isomeric (JANOVSKY and REIMANN), 1889, A., 392.
- α*- and *β*-, and their bromo- and nitro-derivatives (JANOVSKY), 1889, A., 865.
- p*-**Azoxytoluenes**, isomerism of (HANTZSCH and WERNER), 1890, A., 350.
- Azoxytoluenesulphonic acid** (JANOVSKY and REIMANN), 1889, A., 392.
- Azoxytoluidine** (LIMPRICHT), 1885, A., 974.
- p*-**Azoxy-*o*-toluidine** (GREEN and LAWSON), 1891, T., 1016.
- salts of (GRAEFF), 1885, A., 1128.
- o*-**Azoxy-*p*-toluonitrile** (NIEZKOWSKI), 1889, A., 1005.
- m*-**Benzamidoazophenol** (SCHULZE), 1889, A., 778.
- Benzazimide** (FINGER), 1888, A., 948.
- Benzeneazo-**. See also Phenylazo- and Azobenzene.
- Benzeneazoacetone**. See Pyruvaldehydephenylhydrazine.
- Benzeneazoaniline**, preparation of (WITT and THOMAS), 1883, T., 113; (FISCHER), 1884, A., 1014.
- action of acetone on (ENGLE and SCHESTOPAL), 1887, A., 480.
- action of aniline hydrochloride on (WITT and THOMAS), 1883, T., 112; (ISTEL), 1892, A., 492.
- action of hydrochloric acid on (FISCHER), 1884, A., 1014.
- bye-products in the manufacture of (GATTERMANN and WICHMANN), 1888, A., 829.
- relation of diazobenzeneanilide to (FRISWELL and GREEN), 1885, T., 917; P., 102; 1887, P., 26.
- Wallach’s explanation of the isomeric transformation of diazoamidobenzene into (MELDOLA), 1887, P., 27.
- derivatives of (JANOVSKY), 1883, A., 867; (BERJU), 1884, A., 1148; 1885, A., 660; (NÖLTING and BAUMANN), 1885, A., 386.
- Benzeneazoaniline**, amido- (MIXTER), 1889, A., 666; (NIEZKI), 1884, A., 1016; (JANOVSKY), 1885, A., 1131.
- m*-nitro- (MELDOLA), 1884, T., 112.
- Benzeneazoaniline mono- and di-sulphonic acids** (GRIESS), 1883, A., 181.

Azo compounds —

- Benzeneazobenzaldehyde** (BEYER and CLAISEN, 1888, A., 828).
- Benzeneazobenzeneazo-*p*-cresol** (NÖLTING and KOHN), 1884, A., 901.
- Benzeneazobenzeneazonaphthol**, nitro- (MELDOLA), 1884, T., 113.
- Benzeneazobenzeneazophenylenediamine** (GRIESS), 1883, A., 1103.
- Benzeneazobenzoic acid** (MENTHA and HEUMANN), 1887, A., 248.
- Benzeneazobenzonitrile** (MENTHA and HEUMANN), 1887, A., 248.
- Benzeneazobenzoylacetic acid**, and *o*-nitro- (BAMBERGER and CALMAN), 1886, A., 62.
- Benzeneazobenzoylacetone** (BEYER and CLAISEN, 1888, A., 828).
- Benzeneazobenzylidene- β -naphthylamine** (GOLDSCHMIDT and ROSELL), 1890, A., 616.
- Benzene-*o*-azobromobenzene** (JANOVSKY, 1886, A., 795; (JANOVSKY and ERB), 1886, A., 1024).
- Benzene-*m*-azobromobenzene** (JANOVSKY and ERB, 1886, A., 1024; 1887, A., 478).
- Benzene-*p*-azobromobenzene** (JANOVSKY and ERB, 1887, A., 478; (JANOVSKY), 1887, A., 663; (NÖLTING and WERNER), 1891, A., 211).
- Benzeneazo-bromonitrobenzene and -bromonitrosobenzene** (WILLGERODT), 1888, A., 949.
- Benzeneazo-*dib*romobenzene, *dib*romo- and benzeneazo-*trib*romobenzene, *trib*romo-, *disulphochlorides* (RODATZ), 1883, A., 479.**
- Benzeneazo-*p*-bromobenzene**, nitro- and nitroso-derivatives of (WILLGERODT and ELLON), 1891, A., 1362.
- Benzeneazocarvaerol** (MAZZARA), 1885, A., 1132.
- Benzeneazo-*p*-chlorobenzamide** (LIMPRICHT), 1891, A., 1037.
- Benzeneazochlorobenzene**, and its derivatives (HEUMANN and MENTHA), 1886, A., 874; 1887, A., 247.
- Benzeneazo-*o*-chlorobenzene, *dinitro*-nitroso-** (WILLGERODT), 1891, A., 1043.
- Benzeneazo-*m*-chlorobenzene**, nitro- and nitronitroso-derivatives of (WILLGERODT and MUTH), 1892, A., 454.
- Benzeneazo-*p*-chlorobenzene**, nitro- and nitronitroso-derivatives of (WILLGERODT and BOHM), 1891, A., 905.

Azo compounds —

- Benzeneazo-chloronitrobenzene and -chloronitrosobenzene** (WILLGERODT and FERRO), 1888, A., 839.
- Benzeneazo-*m*-chlorodimethylaniline, *m*-nitro-** (STAEDEL and BAUER), 1886, A., 944.
- β -Benzeneazo- α -chloronaphthalene** (ZINCKE and KEGEL), 1889, A., 267.
- Benzeneazo-*o*- and -*p*-cresetols** (NÖLTING and WERNER), 1891, A., 212.
- Benzeneazo-*m*-cresol** (NÖLTING and KOHN), 1884, A., 902.
- Benzeneazo-*o*- and -*p*-cresols**, and their acetic and benzoic derivatives (LIEBERMANN and v. KOSTANECKI), 1884, A., 736; (NÖLTING and KOHN), 1884, A., 900.
- Benzeneazo-*p*-cresol, *m*- and *p*-chloro-** (GOLDSCHMIDT and POLLAK), 1892, A., 974, 975.
- o*-nitro-** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- Benzeneazocresols**, reduction of (LIEBERMANN and v. KOSTANECKI), 1884, A., 1146.
- Benzeneazo-*p*-cresolsulphonic acid** (NÖLTING and KOHN), 1884, A., 901.
- Benzeneazocumenol**, and its reduction (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Benzeneazocyanacetophenone** (HALLER), 1889, A., 873.
- Benzeneazocyanocamphor** (MINGUIN), 1892, A., 1343.
- Benzeneazo-2-2'-dianilidonaphthalene** (CLAUSIUS), 1890, A., 629.
- Benzeneazodibenzoylmethane** (BEYER and CLAISEN, 1888, A., 828).
- Benzeneazodibenzoylmethane-*p*-sulphonic acid**, sodium salt of (BEYER and CLAISEN), 1888, A., 828.
- Benzeneazodihydroxynaphthalene**, 1:2-2' (CLAUSIUS), 1890, A., 628.
- Benzeneazodimethylaniline, *m*-amido-** (WALLACH), 1887, A., 41.
- p*-amido-** (MELDOLA, 1884, T., 107.
- trib*romo-** (SILBERSTEIN), 1883, A., 661.
- m*-chloro-** (STAEDEL and BAUER), 1886, A., 944.
- nitro-derivatives of** (NÖLTING), 1888, A., 270.
- m*-nitro-** (MELDOLA), 1884, T., 120; 1887, A., 152; (STAEDEL and BAUER, 1886, A., 944.
- p*-nitro-** (MELDOLA), 1884, T., 107.
- See also Dimethylamidoazobenzene.

AZO-COMPOUNDS—

- Benzeneazodimethylanilinesulphonic acid** (NÖLTING, 1888, A., 271.
- Benzeneazo- α -dinaphthylamine** (FISCHER and HEPP), 1890, A., 912.
- α -Benzeneazo- α - β -dinaphthylamine** (MATTHES), 1890, A., 385, 993.
- Benzeneazo- β - β -dinaphthylamine** (MATTHES), 1890, A., 993.
- Benzeneazodiphenyl** (LOCHER), 1888, A., 589.
- Benzeneazodiphenylamine, *m*-nitro-** (MELDOLA), 1884, T., 118, 119.
- p*-nitro- and *p*-amido-** (MELDOLA), 1883, T., 410.
- m*- and *p*-nitroso-** (MELDOLA), 1881, T., 118, 119.
- Benzeneazodiphenylcarbamide** (GOLDSCHMIDT and ROSELL), 1890, A., 616.
- Benzeneazodiphenyldisulphonic acid** (GRIESS), 1888, A., 827.
- Benzeneazodiphenylthiocarbamide** (BERJU), 1884, A., 1149.
- o*-Benzeneazoethylresorcinol** (PUKAL), 1887, A., 662.
- Benzeneazo-*m*-hydroxybenzoic acid** (LIMPRICHT), 1891, A., 1037.
- Benzeneazohydroxybenzyl alcohol** (TUMMELEY), 1889, A., 780.
- m*-Benzeneazo-*o*-hydroxymethylquinoline** (GANELIN and V. KOSTANECKI), 1892, A., 506.
- Benzeneazo-*o*- and *p*-hydroxyquinolines** (MATHÉUS), 1888, A., 851.
- Benzeneazo-*p*-hydroxyquinolinesulphonic acid** (MATHÉUS), 1888, A., 851.
- Benzeneazoindoxyl** (v. BAAYER), 1884, A., 74.
- Benzeneaziodobenzene** (NÖLTING and WERNER), 1891, A., 211.
- iodo-, colour of** (LING), 1892, P., 198.
- Benzeneazo-ketones** (v. RICHTER and MÜNZER), 1884, A., 1342.
- Benzeneazomalonic acid** (MEYER), 1888, A., 369; 1891, A., 922.
- Benzeneazomethane** (*aromethylphenyl*) (TAFEL), 1885, A., 1061.
- Benzeneazomethylaniline, *p*-nitro-** (NÖLTING), 1888, A., 273.
- and its acetyl derivative** (BERJU), 1884, A., 1149.
- Benzeneazo-*o*-methylcyanacetophenone** (HALLER), 1889, A., 874.
- 1'-Benzeneazo-2'-methyl-*ar*-octohydro- β -naphthaquinoline** (BAMBERGER and MÜLLER), 1891, A., 1512; (BAMBERGER and STRASSER), 1891, A., 1513.

AZO-COMPOUNDS

- 2'-Benzeneazo-2'-methyl-*ar*-octohydro- β -naphthaquinoline** (BAMBERGER and STRASSER), 1891, A., 1513.
- Benzeneazo- α -naphthaleneazo- α - and - β -naphthols, *m*-nitro-** (MELDOLA), 1884, T., 114, 116.
- Benzeneazo- α -naphthaleneazoresorcinol, *m*-nitro-** (MELDOLA), 1884, T., 116.
- Benzeneazonaphthalenes, nitro-, nitroso-, and nitronitroso-derivatives of** (WILGERODT and SCHULTZ), 1891, A., 572.
- Benzeneazonaphtharesorcinol, nitroso-** (v. KOSTANECKI), 1890, A., 261.
- Benzeneazo- α -naphthol, action of *m*-diazobenzoic acid and of diazsulphanilic acid on** (NÖLTING and GRANDMOUGIN), 1891, A., 1076.
- identity of, with α -naphthaquinonehydrazide** (ZINCKE and BINDEWALD), 1885, A., 391.
- amido-, methyl and ethyl ethers of** (WITT and SCHMIDT), 1892, A., 862.
- Benzeneazo- β -naphthol, action of carbon disulphide on** (JACOBSON), 1888, A., 487.
- reduction of** (MELDOLA and MORGAN), 1889, T., 122; P., 12.
- m*-nitro-, acetyl derivative of** (MELDOLA and EAST), 1888, T., 464.
- Benzeneazo- α - and - β -naphthols** (LIEBERMANN), 1884, A., 610; (ZINCKE and RATHGEN), 1887, A., 54.
- p*-nitro- and *p*-amido-** (MELDOLA), 1885, T., 661, 662.
- Benzeneazo- α -naphthol-*m*-carboxylic acid, *o*- and *p*-** (NÖLTING and GRANDMOUGIN), 1891, A., 1074.
- Benzeneazo- β -naphtholdisulphonic acid, oxidation of** (LAUTH), 1892, A., 48.
- Benzeneazonaphtholsulphonic acid, spectrum of** (HARTLEY), 1887, T., 196.
- Benzeneazo- α -naphthylamidoacetic acid** (DONNER), 1892, A., 191.
- o*-, *m*-, and *p*-nitro-** (DONNER), 1892, A., 1100.
- Benzeneazo- α -naphthylamine, *p*-amido-** (MELDOLA), 1883, T., 432.
- m*-nitro-** (MELDOLA), 1884, T., 114.
- p*-nitro-** (MELDOLA), 1883, T., 430.
- Benzeneazo- β -naphthylamine and its derivatives** (LAWSON), 1885, A., 803; (ZINCKE and LAWSON), 1888, A., 159.

AZO-COMPOUNDS—

- Benzeneazo- β -naphthylamine**, action of aldehydes and of nitric acid on (MELDOLA and HUGHES), 1891, T., 379.
 action of dimethylaniline on (GOLD-SCHMIDT and BARDACH), 1892, A., 980.
 derivatives (MELDOLA and HUGHES), 1891, A., 372; P., 83.
 triazine from (MELDOLA), 1890, T., 329.
o-nitro- (MELDOLA and HUGHES), 1891, T., 373.
m-nitro-, action of nitrous acid on (MELDOLA and EAST), 1888, T., 463.
p-nitro-, and its reduction (MELDOLA), 1883, T., 430.
 formation of ψ -azimides from (MELDOLA and HUGHES), 1891, T., 378.
Benzeneazo- β -naphthylamines, nitro-, constitutional formulæ of (MELDOLA), 1884, T., 118.
 acetyl derivatives of (MELDOLA and HUGHES), 1891, T., 375.
Benzeneazo- α -naphthylidimethylamine (EICKER), 1891, A., 470.
Benzeneazo- α -naphthylethylamine (HENRIQUES), 1885, A., 168; (FISCHER and HEPP), 1890, A., 911; (EICKER), 1891, A., 470.
Benzeneazo- β -naphthylethylamine (HENRIQUES), 1885, A., 168.
Benzeneazo- α - and - β -naphthylacetic acids, nitration of (MELDOLA and MORGAN), 1889, T., 609.
Benzeneazo- β -naphthylacetic acid (MELDOLA and EAST), 1888, T., 466; (MELDOLA and MORGAN), 1889, T., 609.
 reduction of (MELDOLA and MORGAN), 1889, T., 117, 122; P., 12.
Benzeneazo- α -naphthyl benzoate (MELDOLA and MORGAN), 1889, T., 606.
Benzeneazo- β -naphthyl benzoate, its reduction, and its *m*-nitro-derivative (MELDOLA and MORGAN), 1889, T., 115.
Benzeneazo- α - and - β -naphthyl ethylates, nitration of (MELDOLA and MORGAN), 1889, T., 608.
Benzeneazo- α -naphthylphenylamine (FISCHER and HEPP), 1890, A., 912.
Benzeneazo- β -naphthylphenylamine (HENRIQUES), 1885, A., 168; (ZINCKE and LAWSON), 1887, A., 730.

AZO-COMPOUNDS—

- Benzeneazo- α -naphthyl-*p*-tolylamine** (FISCHER and HEPP), 1890, A., 912.
Benzeneazo- β -naphthyltolylamine (MATTHES), 1890, A., 992; (FISCHER), 1892, A., 1476.
Benzeneazonitriline, nitro- (ODDO), 1891, A., 554.
Benzene-*o*-azonitrobenzene (JANOVSKY), 1886, A., 794.
Benzene-*p*-azonitrobenzene (JANOVSKY and ERB), 1885, A., 894; 1887, A., 478.
 reduction of (JANOVSKY), 1885, A., 789.
 chloro- (DAHME and GASTOROWSKI), 1887, A., 248.
Benzeneazonitrobenzenes (JANOVSKY), 1883, A., 867; 1887, A., 663.
Benzeneazo-*dinitro*benzene, *o*- and *m*-nitro- (KLINGER and ZUURDEEG), 1890, A., 762.
p-nitro- and *o*-*p*-*dinitro*- (WILLGERODT and HERMANN), 1890, A., 1259.
Benzeneazonitrosobenzene-*p*-azochlorobenzene, nitro-*dinitroso*- (WILLGERODT and BÖHM), 1891, A., 907.
*dinitro*nitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 907.
Benzeneazonitrosobenzeneazodinitro-nitrosobenzene, chloronitro- (WILLGERODT), 1890, A., 1119.
Benzene-*p*-azonitrobenzene, *p*-nitro-, reduction of (JANOVSKY), 1885, A., 789.
Benzeneazonitrosobenzeneazotri-nitrobenzene, chloro- (WILLGERODT and BÖHM), 1891, A., 907.
Benzeneazonitrosoresorcinol (v. KOSTANECKI), 1889, A., 137.
Benzeneazo-*ar*-octahydro- α -naphthoquinoline (BAMBERGER and STETTENHEIMER), 1891, A., 1261.
Benzeneazophenetol. See Ethoxyazobenzene.
Benzeneazophenetolsulphonic acid (FEER and MÜLLER), 1889, A., 258.
Benzeneazophenol, chloro- (HEUMANN and OECONOMIDES), 1887, A., 664.
p-nitro-, and *p*-amido- (MELDOLA), 1885, T., 658, 659.
 See also Hydroxyazobenzene.
Benzeneazophenylbiazoline (FREUND and KUH), 1890, A., 1441.
Benzeneazophenylidimethylpyrazole [4:1335-] (BEYER and CLAISEN), 1888, A., 828.

AZO COMPOUNDS —

- Benzeneazophenylenediamine** and homologues, formation of (FELSWILL and GREEN, 1885, T., 923.
amido- (JANOVSKY), 1885, A., 1131.
- Benzeneazo-*m*-phenylenediamine.**
See Chrysoidine.
- Benzeneazophenylenediamineazo-benzene** (GRIESS), 1883, A., 1102.
- Benzeneazophenylenediamineazobenzenesulphonic acid** (*azosulphobenzenephenylenediamineazobenzeno*) (GRIESS), 1883, A., 1103.
- Benzeneazophenylenediamineazobenzoic acid** (GRIESS), 1883, A., 1103.
- Benzeneazophenylenediamineazotoluenes** (GRIESS), 1883, A., 1102, 1103.
- Benzeneazophenylic phosphate** (HEUMANN and PAGANINI), 1891, A., 361.
- Benzeneazophenylisoxalone** (CLAISEN and ZIEBEL), 1891, A., 168.
- Benzeneazophenylthio-, dithio-, and β -thio-biazolones** (FREUND and KUH), 1890, A., 1440.
- Benzeneazopropylene** (*azophenylallyl*) (FISCHER and KNOEVENAGEL), 1887, A., 933.
- Benzeneazoquinoline** (EPHRAIM), 1891, A., 1509.
- Benzeneazoresorcinol**, and its purification (MEYER and KREIS), 1883, A., 982.
p-nitro-, and *p*-amido- (MELDOLA), 1885, T., 660.
nitroso- (V. KOSTANECKI), 1889, A., 137.
- p*-Benzeneazoresorcinol** (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Benzeneazoresorcinylic mono- and dimethyl ethers.** *o*- and *p*- (BECHHOLD), 1889, A., 1155.
conversion of, into hydroxyquinol-derivatives (BECHHOLD), 1889, A., 1155.
- Benzeneazo- β -resorcylic acid** (LIMPRICHT), 1891, A., 1037.
- Benzeneazosalicylamide and benzeneazosalicylic aldehyde** (TUMMELEY), 1889, A., 780.
- Benzeneazosalicylic acid** (v. KOSTANECKI and ZIEBEL), 1891, A., 1038.
and its derivatives (LIMPRICHT), 1891, A., 1036.
p-amido-, and *p*-nitro- (MELDOLA), 1885, T., 666, 667.
nitro- (GEBER), 1889, A., 780.

AZO-COMPOUNDS —

- Benzeneazotetrahydro- α -naphthaquinoline** (BAMBERGER and STETTENHEIMER), 1891, A., 1259.
- 1'-Benzeneazotetrahydro- β -naphthaquinoline** (BAMBERGER and MÜLLER), 1891, A., 1510.
- Benzeneazo- α -tetrahydro- α -naphthol** (BAMBERGER and BORDT), 1890, A., 509.
- Benzeneazo- α -tetrahydronaphthylamine** (BAMBERGER and BORDT), 1889, A., 715.
- Benzeneazothymol** (MAZZARA and POSSETTO), 1885, A., 894.
constitution of (MAZZARA), 1885, A., 1131; 1890, A., 884.
- Benzeneazo-*p*-toluene** (SCHULTZ), 1884, A., 903.
- Benzeneazotriphenylpyrazole** [4:1:3:5-] (BEYER and CLAISEN), 1888, A., 828; (DE NEUFVILLE and V. PECHMANN), 1891, A., 319.
- Benzeneazoxazole** (RUSSANOFF), 1892, A., 322.
- Benzeneazoximidobenzene**, *tetranitro*- (WILLGERODT), 1892, A., 1454.
- Benzeneazo-*m*-xyleneazo- α - and - β -naphthols**, *p*-nitro- (MELDOLA), 1883, T., 434.
- Benzeneazo-*m*-xyleneazo- α - and - β -naphtholsulphonic acid**, *p*-nitro- (MELDOLA), 1883, T., 435.
- Benzeneazo-*m*-xyleneazophenol**, *p*-nitro- (MELDOLA), 1883, T., 435.
- Benzeneazo-*m*-xyleneazoresorcinol**, *p*-nitro- (MELDOLA), 1883, T., 436.
- Benzeneazo-*m*-xylenol** (GREVINGK), 1886, A., 348.
- Benzeneazo-*o*-xylidine** (MENTON), 1891, A., 1205.
- Benzeneazo-*m*-xylidine**, *p*-amido- and *p*-nitro- (MELDOLA), 1883, T., 428, 432.
- Benzenebisazo-*o*- and -*m*-cresols** (NÖLTING and KOHN), 1884, A., 902.
- Benzenebisazomethoxybenzene** (NÖLTING and KOHN), 1884, A., 902.
- Benzenebisazo- α -naphthol** (NÖLTING and GRANDMOUGIN), 1891, A., 1076.
- Benzenebisazoresorcinol** (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Benzenebisazothymol**, constitution of (MAZZARA), 1890, A., 884.
- Benzene-*p*-bromoxybenzene**, nitro- and nitroso-derivatives of (WILLGERODT and ELLON), 1891, A., 1362.
- Benzene-*m*-chlorazoxybenzene**, nitro-nitroso- (WILLGERODT and MÜHE), 1892, A., 455.

AZO-COMPOUNDS—

- Benzene-*p*-chlorodinitrazobenzene**, dinitronitroso- (WILLGERODT and BÖHM), 1891, A., 906.
- Benzenediazoacetanilide** (HEUSLER), 1892, A., 458.
- Benzenediazobenzylanilide**, dry decomposition of (HEUSLER), 1891, A., 555.
- Benzenediazoconiine** (WALLACH), 1887, A., 137.
- Benzenediazodimethylamide**, preparation of (HEUSLER), 1891, A., 556.
- Benzenediazonitrosodiphenylamine** (FISCHER and WACKER), 1888, A., 1286.
- Benzenediazonitrosophenyltolylamine** (REICHOOLD), 1890, A., 610.
- Benzenediazophenol** (WALLACH and SCHULZE), 1883, A., 583.
- Benzenediazopiperidide** (WALLACH), 1887, A., 137.
dry decomposition of (HEUSLER), 1891, A., 555.
- Benzene-*p*-diazopiperidide**, fluoro- (WALLACH and HEUSLER), 1888, A., 362.
nitro- (WALLACH), 1887, A., 131.
- Benzenediazoresorcinols**, isomeric (v. KOSTANECKI), 1889, A., 138.
- Benzenediazothiazole hydrate** (SCHATZMANN), 1891, A., 745.
- Benzenediazothymol** (MAZZARA and POSSETTO), 1885, A., 894.
- Benzenediazo-*p*-toluidide**, *p*-bromo- and *p*-chloro-, methylation of (MELDOLA and STREITFEILD), 1889, T., 433, 437; P., 98.
- Benzenylazosulphimecarbanilide** (TIEMANN), 1891, A., 558; (KOCH), 1891, A., 560.
- Benzenylazosulphimecarbo-*p*-bromo- and -nitroso-anilides** (KOCH), 1891, A., 561.
- Benzenylazosulphimecarbohydro- and -di-sulphides** (CRAYEN), 1891, A., 559.
- Benzenylazosulphimecarbothioethyl-ic ether** (CRAYEN), 1891, A., 560.
- Benzenylazoximeacetylenyl** (TIEMANN), 1890, A., 44.
p-nitro- (WEISE), 1890, A., 46.
- Benzenylazoximeisobutenyl** (ZIMMER), 1890, A., 254.
- Benzenylazoximebenzenyl**, *m*-amido-, and its derivatives (SCHÖPFF), 1885, A., 1217.
m-nitro-, and its derivatives (SCHÖPFF), 1885, A., 897, 1217.
p-nitro- (WEISE), 1890, A., 45.

AZO-COMPOUNDS—

- Benzenylazoximebenzenyl-*o*-carb-oxylic acid** and its salts (SCHULZ), 1885, A., 1219.
- Benzenylazoximeisobutenyl** (ZIMMER), 1890, A., 254.
- Benzenylazoximecarbinol** and its derivatives (FALCK), 1885, A., 1217.
- Benzenylazoximecarbo-*p*-toluidide** (KOCH), 1891, A., 561.
- Benzenylazoxime-ethenyl** (TIEMANN and KRÜGER), 1884, A., 1326.
m-nitro- (SCHÖPFF), 1885, A., 897.
p-nitro- (WEISE), 1890, A., 45.
- Benzenylazoximeethenylcarboxylic acid** (WURM), 1890, A., 258.
- Benzenylazoxime-*m*-nitrobenzenyl**, *m*-nitro- (STIEGLITZ), 1890, A., 256.
- Benzenylazoximephenylethenyl** (ZIMMER), 1890, A., 253.
- Benzenylazoximepropenyl** (ZIMMER), 1890, A., 254.
- Benzenylazoximepropenyl-*ω*-carb-oxylic acid** and its salts (SCHULZ), 1885, A., 1219.
- Benzenylazoximesalicenyl** (ZIMMER), 1890, A., 254.
- Benzidineazo-dyes**, colouring properties of (MÖHLAU), 1886, A., 947.
- Benzoylbenzeneazacetone** (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Benzoylchlorobenzeneazocresols** (GOLDSCHMIDT and POLLAK), 1892, A., 975.
- Benzoylphenylazimethylene** (CURTIUS and THUN), 1891, A., 1357.
reactions of (CURTIUS and LANG), 1892, A., 451.
- Benzylamidobenzeneazo-*α*- and -*β*-naphthols** (MELDOLA and COSTE), 1889, T., 596.
- Benzylazimidobromobenzene** (ZINCKE and ARZBERGER), 1889, A., 502.
- Benzyl diazoamidobenzene** (FRISWELL and GREEN), 1886, T., 749.
- Benzylideneamidoazobenzene** (BERJU), 1884, A., 1149.
- Benzylidene-*o*-amidoazotoluene** (GOLDSCHMIDT and ROSELL), 1890, A., 616.
- Benzylmalonic azimide** (RUHEMANN and MORRELL), 1892, T., 796.
- Benzylmethylbromobenzeneazamonium iodide** (ZINCKE and ARZBERGER), 1889, A., 502.
- Bisazobenzene** (NIETZKI and DIESTERWEG), 1888, A., 1082.
chloronitro-, chloronitronitroso-, and nitronitroso-derivatives of (WILLGERODT and MÜHE), 1892, A., 455, 456.

AZO-COMPOUNDS—

Bisazobenzene-*p*-chlorophenylhydrazine, *tetranitronitroso-* (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 907.

Bisazobenzene-phenylhydrazine, *pentamitro-* (WILLGERODT and MÜHE), 1892, A., 456.

Bisazo-compounds (NIETZKI and DIESTERWEG), 1888, A., 1082.
of α -naphthol, molecular change in the formation of (NÖLTING and GRANDMOUGIN), 1891, A., 1075.

Bisbenzeneazooacetone (v. PECHMANN and JENISCH), 1892, A., 161.

Bis-*o*- and -*p*-diazooanisolemethyl- and -ethyl-amines (GOLDSCHMIDT and BADL), 1889, A., 774.

***m*-Bisdiazobenzene compounds** (GRIESS), 1886, A., 459.

Bisdiazobenzene-allylamine, -ethylamine, and -methylamine (GOLDSCHMIDT and BADL), 1889, A., 774.

Bis-*p*-diazotolueneallylamine (GOLDSCHMIDT and BADL), 1889, A., 775.

Bis-*p*-diazotoluene-ethylamine (GOLDSCHMIDT and HOLM), 1888, A., 686.

Bis-*p*-diazotoluenemethylamine (GOLDSCHMIDT and BADL), 1889, A., 774.

Bisdiethylazimethylene (CURTIUS and THUN), 1891, A., 1355.

Bisdimethylazimethylene (CURTIUS and THUN), 1891, A., 1355.

Bisdiphenylazimethylene (CURTIUS and RAUTERBERG), 1891, A., 1359.

Bispropylmethylazimethylene (CURTIUS and THUN), 1891, A., 1355.

Bismethylphenylazimethylene (CURTIUS and THUN), 1891, A., 1355.

Bisphenylazophenol (v. BAEYER and KOCHENDORFER), 1889, A., 1162.

Carbamidoazobenzene, and thio- (BERJU), 1884, A., 1149; 1885, A., 660.

Carbanilidoamidoazobenzene, **Carbanilidoamidoazotoluene**, **Carbanilidobenzeneazo- β -naphthylamine**, **Carbanilidohydroxyazobenzene** and **Carbanilidophenolbisazobenzene** (GOLDSCHMIDT and ROSELL), 1890, A., 614.

Carboxybenzeneazooacetoacetic acid (*azooacetoacetic benzoic acid*) (GRIESS), 1885, A., 788.

***m*-Carboxybenzenylazoximebenzenyl** (MÜLLER), 1886, A., 803.

Carboxybenzenylazoximepropenyl- ω -carboxylic acids, *m*- and *p*- (MÜLLER), 1886, A., 803.

AZO-COMPOUNDS—

Carboxybenzenylazoxime-ethenyl, *m*- and *p*- (MÜLLER), 1886, A., 802.

Carvacrolbisdiazotriphenylmethane (MAZZARA), 1886, A., 59.

Cinnamenylazoximebenzenyl (WOLFF), 1886, A., 798.

Cinnamenylazoxime-ethenyl (WOLFF), 1886, A., 798.

Cinnamenylazoximepropenyl- ω -carboxylic acid (WOLFF), 1886, A., 799.

“**Cinnamicdiazooacetic acid**” (BUCHNER), 1888, A., 1275.

Cinnamoylphenylazimide, formation and reduction of (RUHEMANN), 1892, T., 282.

Cresolbisazotoluenes, *o*- and *p*- (NÖLTING and WERNER), 1891, A., 212.

ψ -Cumeneazo- ψ -cumene. See **Azo- ψ -cumene**.

ψ -Cumeneazocumenol (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.

Cumeneazo- β -naphthol-mono- and -di-sulphonic acids, spectrum of (HARTLEY), 1887, T., 187.

ψ -Cumeneazophenol (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.

ψ -Cumenediazopiperidine (WALLACH and HEUSLER), 1888, A., 362.

ψ -Cumeneazoresorcinol (LIEBERMANN and v. KOSTANECKI), 1884, A., 736, 1147; (v. KOSTANECKI), 1889, A., 137.
nitroso- (v. KOSTANECKI), 1889, A., 137.

ψ -Cumeneazoresorcinolazocumene (LIEBERMANN and v. KOSTANECKI), 1884, A., 736.

ψ -Cumenebisazoresorcinol (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.

Cumylenediazosulphide (JACOBSON and NEY), 1889, A., 772.

Cyanazocamphene (TANRET), 1888, A., 720.

Cymeneazocymene (*azocymene*) (SCHUMOFF), 1888, A., 469.

Dianilido-*o*-diazothiole (HECTOR), 1889, A., 872; 1890, A., 526.

Diazoacetamide (CURTIUS), 1884, A., 988; 1885, A., 883.

ψ -Diazoacetamide (CURTIUS), 1885, A., 883.

Diazoacetates, ethereal, action of, on ethereal salts of unsaturated acids (BUCHNER), 1888, A., 1274.

Diazoacetic acid, and its salts (CURTIUS), 1885, A., 883.

AZO-COMPOUNDS—

- Diazoamides**, normal and mixed (MELDOLA and STREATFEILD), 1890, T., 785; P., 139.
- m*-**Diazoamidobenzamide** (SCHULZE), 1889, A., 778.
- Diazoamidobenzene** (*diazobenzeneanilide*) (FISCHER), 1884, A., 1014. preparation of (STAEDEL and BAUER), 1886, A., 943. conditions of formation of (FRISWELL and GREEN), 1885, T., 919; P., 102. constitution of (FRISWELL and GREEN), 1886, T., 716; P., 229. dry decomposition of (HEUSLER), 1891, A., 555. action of phenol on (HEUMANN and OECONOMIDES), 1887, A., 480. action of *p*-toluidine on (GOLDSCHMIDT and BARDACH), 1892, A., 978. relation of, to amidoazobenzene (FRISWELL and GREEN), 1885, T., 917; P., 102; 1886, T., 746; P., 229; 1887, P., 26. Wallach's explanation of the isomeric transformation of, into amidoazobenzene (MELDOLA), 1887, P., 27. formation of *diamidoazobenzene* and its homologues from (FRISWELL and GREEN), 1885, T., 923.
- Diazoamidobenzene** (*diazobenzeneanilide*), *p*-bromo-, and its methyl derivative (MELDOLA and STREATFEILD), 1889, T., 435. *tri*- and *hexa*-bromo- (SILBERSTEIN), 1883, A., 661. *p*-bromo-*m*- and *p*-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1285. ethylation and methylation of (MELDOLA and STREATFEILD), 1889, T., 420, 424. *di*bromodinitro- (MELDOLA and STREATFEILD), 1888, T., 669. *m*- and *p*-dichloro-, action of *p*-toluidine on (GOLDSCHMIDT and BARDACH), 1892, A., 978. *p*-dichloro-, and its ethyl derivative (MELDOLA and STREATFEILD), 1888, T., 670. *m*-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1285. *m*-dinitro- (MELDOLA and STREATFEILD), 1887, T., 107. *p*-dinitro- (MELDOLA and STREATFEILD), 1886, T., 626; 1887, T., 102.

AZO-COMPOUNDS—

- Diazoamidobenzene** (*diazobenzeneanilide*), *m*- and *p*-dinitro-, methylation of (MELDOLA and STREATFEILD), 1888, T., 666. *p*-*m*-dinitro-, and its alkyl derivatives (MELDOLA and STREATFEILD), 1889, T., 415.
- Diazoamidobenzene- β -naphthalene** (*diazobenzene-naphthylamide*) *p*-bromo- (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazoamidobenzenetoluene** (*diazobenzene-toluidide*), *p*-bromo- and *m*-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazoamidobromo- β -phenylpropionic acid** (GABRIEL), 1883, A., 195.
- Diazoamido-*m*- and *p*-chlorobenzene-*p*-toluenes** (*diazochlorobenzene-p-toluidides*) (GOLDSCHMIDT and BARDACH), 1892, A., 979.
- Diazoamido-compounds** (NÖLTING and BINDER), 1885, A., 385; 1888, A., 271; (MELDOLA and STREATFEILD), 1886, P., 263; 1887, T., 102, 434, 448; P., 50; 1888, T., 664; P., 63; (WALLACH), 1887, A., 137; (FISCHER and WIMMER), 1887, A., 819; (GOLDSCHMIDT and MOLINARI), 1888, A., 1283; (GOLDSCHMIDT and BADL), 1889, A., 774; (GOLDSCHMIDT and BARDACH), 1892, A., 977. constitution of (MELDOLA and STREATFEILD), 1887, T., 434, 448; P., 50; (MELDOLA), 1887, A., 818. cryoscopic experiments with (GOLDSCHMIDT), 1891, A., 1211. dry decomposition of (HEUSLER), 1891, A., 555. action of acetic anhydride on (HEUSLER), 1892, A., 458. action of aniline hydrochloride on (GOLDSCHMIDT and BARDACH), 1892, A., 979. action of phenol on (HEUMANN and OECONOMIDES), 1887, A., 664. conversion of, into azoamido-compounds (GOLDSCHMIDT and BARDACH), 1892, A., 977. ethylene derivatives of (MELDOLA and STREATFEILD), 1892, P., 119. of ethyl-*p*-toluidine (GASTIGER), 1885, A., 381. of the paraffin series (CURTIUS), 1884, A., 987. mixed, new method of determining the constitution of (GOLDSCHMIDT and HOLM), 1888, A., 685.

AZO-COMPOUNDS—

- Diazoamido-compounds**, mixed, synthesis of alkyl heterogenous (MELDOLA), 1889, T., 610; P., 127.
 isomerism of the alkyl derivatives of (MELDOLA and STREATFEILD), 1889, T., 412; P., 98.
 nitrated (NIEMENTOWSKI), 1890, A., 39.
d-nitro-, decomposition of, by cold hydrochloric acid (MELDOLA and STREATFEILD), 1887, T., 436.
Diazoamido- ψ -cumene, action of *p*-toluidine on (GOLDSCHMIDT and BARDACH), 1892, A., 978.
Diazoamido- ψ -cumene-*p*-toluene (GOLDSCHMIDT and BARDACH), 1892, A., 979.
Diazoamidodiphenylmethane (MANNS), 1889, A., 261.
Diazoamidonitrobenzene (NIEMENTOWSKI), 1890, A., 39.
Diazoamidonitrotoluene (NIEMENTOWSKI), 1890, A., 39.
Diazoamido-*o*-toluene (*diazotoluene-toluidide*) (FISCHER and WIMMER), 1887, A., 819; (HEUSLER), 1892, A., 459.
Diazoamido-xylene (*diazoxylene-xylidide*) (FISCHER and WIMMER), 1887, A., 819.
o-**Diazoazotoluene** (*diazotoluene-*o*-toluene*), action of α - and β -naphthols and β -naphthylamine on (ZINCKE and LAWSON), 1887, A., 731.
 derivatives of (ZINCKE and LAWSON), 1886, A., 795.
p-**Diazoazotoluene salts** (ZINCKE and LAWSON), 1887, A., 732.
p-**Diazoazotolueneimide** (ZINCKE and LAWSON), 1887, A., 732.
o-**Diazobenzaldehyde** (ELIASBERG and FRIEDLÄNDER), 1892, A., 1106.
Diazobenzene (SANDMEYER), 1890, A., 1115.
 action of, on acetonedicarboxylic acid (v. PECHMANN and JENISCH), 1892, A., 161.
 action of phenol on (HIRSCH), 1891, A., 437.
 acid salts of, action of alkalis on (CURTIUS), 1891, A., 55.
 salts, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1156.
perbromide (SAUNDERS), 1892, A., 316.

AZO-COMPOUNDS—

- Diazobenzene chloride**, action of acetone on (BAMBERGER and WULZ), 1891, A., 1450.
 action of benzaldoxime on (MAI), 1892, A., 163.
 action of hydroxylamine on (MAI), 1892, A., 710.
 action of sodium thiosulphate on (PURGOTTI), 1890, A., 1419.
 reaction of (ODDO), 1891, A., 553.
 nitrate, action of potassium ferrocyanide on (LOCHER), 1888, A., 589.
 stannochloride (GRIESS), 1885, A., 789.
 sulphates, *o*- and *m*- (REMSEN and GRAHAM), 1889, A., 975.
Diazobenzene, amido- (GRIESS), 1884, A., 1148.
tribromo-, nitrate and other salts of (SILBERSTEIN), 1883, A., 660.
Diazobenzeneamidocarbazole (ZATTI and FERRATINI), 1892, A., 617.
Diazobenzeneanilide. See **Diazoamidobenzene**.
Diazobenzeneazobenzene, combination of, with aniline (NIETZKI and DIESTERWEG), 1888, A., 1082.
Diazobenzeneazobenzene-mono- and -di-sulphonic acids (GRIESS), 1883, A., 182.
Diazobenzenebenzamidine (PINNER), 1889, A., 1005.
Diazobenzenebenzylamide (GOLDSCHMIDT and HOLM), 1888, A., 685.
Diazobenzenebenzylanilide (FRISWELL and GREEN), 1886, T., 749.
Diazobenzene-*p*-bromodiphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
Diazobenzene-*p*-bromophenyl-*p*-tolylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
Diazobenzene-cumylamide (GOLDSCHMIDT and GESSNER), 1889, A., 773.
Diazobenzenediphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1283.
Diazobenzene-*p*-ditolylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
Diazobenzene-ethyl- β -tetrahydronaphthylamide (BAMBERGER and MÜLLER), 1889, A., 889.
Diazobenzene-ethyl-*p*-toluidide (NÜLTING and BINDER), 1888, A., 273.

AZO-COMPOUNDS—

- Diazobenzeneglyoxaline** (RUNG and BEHREND), 1892, A., 1493.
- Diazobenzeneimide**, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1157.
- tribromo-* (SILBERSTEIN), 1883, A., 661.
- p-nitro-* (CULMANN and GASIOROWSKI), 1889, A., 1157.
- Diazobenzenemethylanilide** (FRISWELL and GREEN), 1886, T., 748; (NÖLTING and BINDER), 1888, A., 273.
- Diazobenzene-*o*- and -*p*-methylbenzylamides** (KRÖBER), 1890, A., 969.
- Diazobenzenenaphthylamide**, *p-bromo-* (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazobenzene- β -naphthylamine**. See Benzeneazo- β -naphthylamine.
- Diazobenzene- β -naphthylphenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazobenzene-*m*- and -*p*-nitrodi-phenylcarbamide**, *m*- and *p-bromo-* (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- Diazobenzene-*m*-nitrophenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- Diazobenzenenitrosodimethylaniline** (FISCHER and WACKER), 1889, A., 702.
- Diazobenzenephenyl-*p*-tolylcarb-amide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1283.
- Diazobenzenepiperazine** (SCHMIDT and WICHMANN), 1892, A., 211.
- Diazobenzenepiperidide** (NÖLTING and BINDER), 1888, A., 273.
- p*-Diazobenzenesulphonic acid**, action of, on primary amido-compounds, and on isomeric toluidines (GRIESS), 1883, A., 181.
- behaviour of aldehyde, glucose, peptone, albuminous bodies, and acetone towards (PETRI), 1884, A., 1322.
- o-nitro-* (NIETZKI and LERCH), 1889, A., 144.
- Diazobenzene- α -tetrahydronaphthylamide** (BAMBERGER and BAMMANN), 1889, A., 784.
- Diazobenzenetetrahydroquinolide** (NÖLTING and BINDER), 1888, A., 273.
- Diazobenzenetoluidide**, *p-bromo-* and *m-nitro-* (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

AZO-COMPOUNDS—

- Diazobenzene-*p*-tolylphenylcarb-amide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- 4-Diazobenzidine-2-2'-disulphonic acid**, 4'-amido- (LIMPRICHT), 1891, A., 929.
- Diazobenzimide**, *m*-amido-, and its derivatives (GRIESS), 1885, A., 789.
- 6-Diazobenzoic acid**, 3-amido-, and its derivatives (GRIESS), 1884, A., 1148.
- Diazobenzoic acids**, action of alcohols on (GRIESS), 1888, A., 588.
- Diazobenzylamidobenzene**, *m*- and *p-dinitro-* (MELDOLA and STREATFIELD), 1887, T., 112, 113.
- Diazodibromobenzene sulphate** (HEINICHEN), 1890, A., 165.
- Diazo-*p*-bromobenzenemethyl-*p*-toluidide**, combination of diazo- β -naphthalenemethyl-*p*-toluidide, and of diazo-*m*-nitrobenzenemethyl-*p*-toluidide with (MELDOLA and STREATFIELD), 1890, T., 793, 797.
- Diazoisobutylbenzene**, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1157.
- o*-Diazocinnamic acid**, hydrochloride and nitrate of (FISCHER and KUZEL), 1884, A., 441.
- p*-Diazocinnamic acid**, decomposition of (GABRIEL), 1883, A., 196.
- Diazo-compounds** (GRIESS), 1883, A., 180, 1102; 1884, A., 1148; 1885, A., 788; 1887, A., 817; 1888, A., 588, 826; (WALLACH), 1883, A., 584; 1887, A., 40, 137.
- constitution of (MELDOLA and STREATFIELD), 1888, T., 664; P., 63.
- thermochemistry of (VIGNON), 1888, A., 774.
- molecular weights of (GOLDSCHMIDT), 1891, A., 193.
- action of alcohol on (HALLER), 1884, A., 1322; (REMSSEN), 1885, A., 525.
- action of finely divided copper on (GATTERMANN, HAUSKNECHT, CANTZLER and EHRHARDT), 1890, A., 970.
- action of, on hydroxybenzoic acids (ZIBELL), 1891, A., 1473.
- action of oximes on (MAI), 1892, A., 163, 1079.
- application of, to the detection of organic matter in water (GRIESS), 1888, A., 993.

AZO-COMPOUNDS—

- Diazo-compounds**, decomposition of (REMSEN and ORNDORFF), 1888, A., 268; (REMSEN and GRAHAM), 1889, A., 975.
- decomposition of, by alcohol (v. HOFMANN), 1884, A., 1315; (v. WROBLEWSKI), 1885, A., 257; (REMSEN and PALMER), 1887, A., 136.
- decomposition of some, by formic and acetic acids (ORNDORFF), 1889, A., 45.
- double decompositions of (ODDO), 1891, A., 554.
- velocity of decomposition of, by water (MÜLLER and HAUSER), 1892, A., 768.
- stability of, in aqueous solution (HIRSCH), 1891, A., 554.
- synthesis by means of (HIRSCH), 1891, A., 437; 1892, A., 1198.
- chlorides of, action of stannous salts on the (GASIOROWSKI and WAJSS), 1885, A., 525.
- mixed (GOLDSCHMIDT and HOLM), 1888, A., 685.
- of the aromatic series (ODDO), 1891, A., 553.
- of *s*-tribromaniline (SILBERSTEIN), 1883, A., 660.
- of the fatty series (CURTIUS), 1884, A., 987; 1885, A., 883.
- constitution of (CURTIUS), 1889, A., 586; 1891, A., 39.
- of the thiazole series (WOHMANN), 1891, A., 225.
- Diazo-*m*- and -*p*-chlorobenzene-*p*-toluidides** (GOLDSCHMIDT and BAR-DACH), 1892, A., 979.
- Diazocresol compounds** (NÖLTING and KOHN), 1884, A., 900.
- Diazo- α -cymenesulphonic acid** (ERRERA), 1891, A., 1067.
- Diazodeoxybenzoin chloride** (NEY), 1888, A., 1197.
- o*-Diazodibenzylamine** (LELLMANN and ARNOLD), 1892, A., 890.
- Diazodiphenylamine sulphate** (IKUTA), 1888, A., 467.
- Diazoethylamidobenzene**, *m*-dinitro- (MELDOLA and STREATFEILD), 1887, T., 108.
- p*-dinitro- (MELDOLA and STREATFEILD), 1887, T., 630.
- Diazoethylresorcinol chloride** (PUKALL), 1887, A., 661.
- Diazo-group**, introduction of, into so-called aromatic para-compounds (GRIESS), 1884, A., 1013.

AZO-COMPOUNDS—

- Diazoguanidine salts** (THIELE), 1892, A., 1298.
- Diazohippurylamide** (CURTIUS), 1892, A., 113.
- Diazo-hydrocarbons**, action of stannous chloride on salts of (CULMANN and GASIOROWSKI), 1889, A., 1156.
- Diazo-hydroxyquinaldine anhydride** (CONRAD and LIMPACH), 1888, A., 1110.
- Diazoimido-hydrocarbons**, some reactions of (CULMANN and GASIOROWSKI), 1889, A., 1156.
- Diazomethylamidobenzenesulphonic acid**, sodium salt of (BERNTSEN and GOSKE), 1887, A., 666.
- Diazomethyluracil derivatives** (BEHREND), 1888, A., 809.
- β -Diazonaphthalene nitrate**, decomposition of, with alcohol (ORNDORFF and KORTWRIGHT), 1891, A., 1073.
- sulphate, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1157.
- β -Diazonaphthalenebenzylamide** (GOLDSCHMIDT and HOLM), 1888, A., 685.
- β -Diazonaphthalene-*p*-bromodiphenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- Diazonaphthaleneimide** (FISCHER), 1886, A., 555.
- Diazo- β -naphthalenemethyl-*p*-toluidide**, combination of, with diazo-*p*-bromobenzenemethyl-*p*-toluidide (MELDOLA and STREATFEILD), 1890, T., 797.
- sulphates, decomposition of, with alcohol (ORNDORFF and KORTWRIGHT), 1891, A., 1073.
- β -Diazonaphthalene- β -naphthylamine** and its derivatives (LAWSON), 1885, A., 1238.
- Diazonaphthalenes**, nitro-, salts of, decomposition of, with alcohol (ORNDORFF and CAUFFMAN), 1892, A., 622.
- Diazonaphthalenesulphonic acid** (FORSLING), 1887, A., 375, 963.
- Diazonaphthalenesulphonic acid[1:2-]** (CLEVE), 1892, A., 345.
- Diazonaphthalenesulphonic acids δ - and γ -** (CLEVE), 1889, A., 155.
- aa*-Diazonaphthalenesulphonic acids**, isomeric (ERDMANN), 1889, A., 156.
- Diazonaphtholsulphonic acid** (SEIDEL), 1892, A., 721.

AZO-COMPOUNDS—

- Diazonitrobenzene chlorides**, decomposition of, by hydrochloric acid (MELDOLA and STREATFEILD), 1887, T., 106.
- Diazo-*m*- and -*p*-nitrobenzene-ethyl-*p*-toluidides** (NOLTING and BINDER), 1888, A., 273.
- Diazo-*m*-nitrobenzenemethyl-*p*-toluidide**, combination of, with diazo-*p*-bromobenzenemethyl-*p*-toluidide (MELDOLA and STREATFEILD), 1890, T., 793.
- m*-Diazo-*p*-nitrobenzenesulphonic acid** (EGER), 1889, A., 708.
- Diazonitro- ψ -cumenesulphonic acid** (MAYER), 1887, A., 953.
- Diazoisotonitrosomethyluracil** (BEHREND), 1888, A., 809.
- p*-Diazonitroso-oxindole chloride** (MEYER), 1886, A., 64.
- m*-Diazophenetoil and its derivatives** (WAGNER), 1885, A., 1212.
- p*-Diazophenol, *di-m*-bromo-** (SILBERSTEIN), 1883, A., 660.
- m*-nitro-** (HÄHLE), 1891, A., 431.
- Diazophenols**, compounds from β -naphthylamine and (SACHS), 1886, A., 235.
- Diazophenolsulphonic acid**, chloro- (KALLREPP), 1886, A., 1019.
- trichloro-*** (LAMPERT), 1886, A., 617.
- Diazo-reaction** (GATTERMANN, HAUSKNECHT, CANTZLER, and EHRHARDT), 1890, A., 971.
- Diazoresorcinol and its derivatives** (BRUNNER and KRAEMER), 1884, A., 1333; (EHRlich), 1888, A., 145; (NIETZKI, DIETZE, and MAECKLER), 1890, A., 156.
- Diazoresorufin and its derivatives** (FÈVRE), 1883, A., 733; (BRUNNER and KRAEMER), 1884, A., 1333; (EHRlich), 1888, A., 145; (NIETZKI, DIETZE, and MAECKLER), 1890, A., 156.
- Diazo-salt-group and a phenol-residue**, intramolecular transformation between (LELMANN and BOYE), 1890, A., 1116.
- Diazo-salts**, anhydrous, preparation of (KNOEVENAGEL), 1891, A., 54.
- of amido-3'-hydroxyquinoline**, action of, on phenols and tertiary bases (RIEMERSCHMIED), 1883, A., 1148.
- Diazosuccinic acid and its derivatives** (CURTIUS and KOCH), 1885, A., 885; 1887, A., 33; 1889, A., 376.
- p*-Diazo-*o*-sulphobenzoic acid** (HEDRICK), 1888, A., 280.

AZO-COMPOUNDS—

- Diazosulphonic acids**, improvement in Sandmeyer's reaction with (TOBIAS), 1890, A., 1149.
- Diazothiazole hydrate** (NÄF), 1891, A., 1515.
- Diazothio-dimethyl- and -diethylanilines** (BERNTSEN), 1889, A., 775.
- Diazotised-*p*-bromaniline**, action of, on methyl- and ethyl-*m*- and *p*-nitranilines (MELDOLA and STREATFEILD), 1889, T., 419, 428; P., 98.
- action of, on methyl-*p*-toluidine** (MELDOLA and STREATFEILD), 1889, T., 432; P., 98.
- p*-chloraniline**, action of, on methyl-*p*-toluidine (MELDOLA and STREATFEILD), 1889, T., 436; P., 98.
- m*-nitraniline**, action of, on methyl- and ethyl-*p*-bromanilines (MELDOLA and STREATFEILD), 1889, T., 425, 428; P., 98.
- action of, on *p*-nitraniline** (MELDOLA and STREATFEILD), 1887, T., 102.
- m*- and *p*-nitranilines**, action of, on monamines (MELDOLA), 1883, T., 428, 440; 1884, T., 107, 112, 118.
- p*-nitraniline**, action of, on methyl- and ethyl-*p*-bromanilines (MELDOLA and STREATFEILD), 1889, T., 418; P., 98.
- Diazotoluene, *o*- and *p*-**, action of sodium sulphide on (PURGOTTI), 1890, A., 1420.
- o*-Diazotoluene salts**, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1156.
- p*-Diazotoluene chloride**, action of hydroxylamine on (MAT), 1892, A., 710.
- Diazotolueneazotoluene**. See Diazoazotoluene.
- Diazotoluenebenzylamide, *o*- and *p*-** (GOLDSCHMIDT and HOLM), 1888, A., 685.
- p*-Diazotoluene-*p*-bromodiphenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- p*-Diazotoluene cumylamide** (GOLDSCHMIDT and GESSNER), 1889, A., 773.
- p*-Diazotoluenedimethylamide** (GOLDSCHMIDT and BADL), 1889, A., 774.
- Diazotoluenedisulphonates** (HASSE), 1886, A., 150.
- p*-Diazotoluene-*p*-ditolylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

AZO-COMPOUNDS—

- p*-Diazotoluene- β -naphthylphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- p*-Diazotoluene-*m*-nitrodiphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- p*-Diazotoluenephenyl-*p*-tolylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazotoluenetoluidide (*diazotoluenetoluidide*) (FISCHER and WIMMER), 1887, A., 819.
- p*-Diazotylene-*o*-sulphonic acid (REMSEN and PALMER), 1887, A., 136.
- p*-Diazotylethylanilide (NÖLTING and BINDER), 1888, A., 272.
- Diazo-*p*-tolylethyl-*p*-toluidide (NÖLTING and BINDER), 1888, A., 273.
- m*-Diazotriazamidobenzene (GRIESS), 1888, A., 827.
- p*-Diazotriazobenzene (GRIESS), 1888, A., 826.
- Diazotriazobenzenesulphonic acid (LIMPRICHT), 1889, A., 398.
- m*-Diazotriazobenzoic acid (GRIESS), 1888, A., 827.
- b*-Diazo- α -truxillic acid (HOMANS, STELTZNER, and SUKOW), 1891, A., 1496.
- Diazouracil (BEHREND and ERNERT), 1890, A., 1241.
- Diazouracilcarboxylic acid (BEHREND and ERNERT), 1890, A., 1240.
- Diazovinylamine (BUCHNER and CURTIUS), 1886, A., 635.
- Diazoxybenzoic acid (GRIESS), 1887, A., 485.
- Diazoxylenesulphonic acids (NÖLTING and KOHN), 1886, A., 356; 1889, A., 611.
- Diazoxylenexylidide (*diazotoluenexylidide*) (FISCHER and WIMMER), 1887, A., 819.
- Dibenzenzylazosulphime (v. HOFMANN and GABRIEL), 1892, A., 1109.
- Dibenzenzyl diazoximeoxalene (WURM), 1890, A., 259.
- Diethylresorcinol-*o*- and -*p*-azoresorcinols (PUKALL), 1887, A., 662.
- Dihydroxydiphenyldimethyldiazobenzophenylmethane (MAZZARA), 1885, A., 904.
- Dimethylamidoazobenzene (*benzene-azodimethylaniline*) (BERJU), 1884, A., 1149.
- as an indicator in alkalimetry (FISCHER and PHILIPP), 1885, A., 1159.

AZO-COMPOUNDS—

- Dimethylamidoazobenzene (*benzene-azodimethylaniline*), *p*-bromo- (GOLDSCHMIDT and BARDACH), 1892, A., 980.
- nitro-derivatives of (NÖLTING), 1888, A., 270.
- Dimethylamidoazobenzenesulphonic acid (NÖLTING and BAUMANN), 1885, A., 385.
- Dimethylamidoazotribromobenzene (*benzene-azodimethylaniline*, tribromo- (SILBERSTEIN), 1883, A., 661.
- Dimethylamidobenzeneazobenzenesulphonic acid (MÖHLAU), 1884, A., 1149.
- spectrum of (HARTLEY), 1887, T., 192.
- Dimethylamidobenzeneazodimethylaniline (NÖLTING and KOHN), 1885, A., 386; (BARBIER and VIGNON), 1888, A., 54.
- Dimethylamidobenzene- α -azonaphthalene (BISCHOFF), 1890, A., 1148.
- Dimethylamidobenzeneazotoluene, and its sulphonic acid (MÖHLAU), 1884, A., 1150.
- Dimethylanilineazobenzylpiperidine (LELLMANN and PEKRUN), 1891, A., 89.
- Dimethylazithane (CURTIUS and THUN), 1891, A., 1356.
- Dimethylazobenzene, tetranitro- (MERTENS), 1886, A., 1022.
- Dimethylbromobenzeneazammonium compounds (ZINCKE and ARZBERGER), 1889, A., 502.
- Dimethyltrichlorobromobenzeneazammonium iodide (ZINCKE and ARZBERGER), 1889, A., 502.
- Dimethylethylazimethylene (CURTIUS and THUN), 1891, A., 1355.
- Dimethylhexylazimethylene (CURTIUS and THUN), 1891, A., 1355.
- Diphenylazocarcinol (MAZZARA), 1885, A., 1132.
- Diphenyl-*p*-azophenylene (v. BANDROWSKI), 1886, A., 1023; 1888, A., 269, 1081.
- Diphenylazothymol, constitution of (MAZZARA), 1885, A., 1131.
- Diphenylbisazonaphtharesorcinol (v. KOSTANECKI), 1890, A., 261.
- Diphenyldiisoleazobenzenesulphonic acid (MÖHLAU), 1883, A., 343.
- Diphenyldiisoleazotribromobenzene hydrochloride (MÖHLAU), 1883, A., 342.
- Diphenyldiisoleazodibromophenol (MÖHLAU), 1883, A., 342.

AZO-COMPOUNDS —

- Diphenyldimethylazimethylene** (CURTIUS and RAUTERBERG), 1891, A., 1359.
- Diphenylenebisazodimethylaniline** (REULAND), 1890, A., 167.
- Diphenylenebisazo- β -naphthol** (REULAND), 1890, A., 167.
- Diphenylenebisazoresorcinol** (REULAND), 1890, A., 167.
- p*-**Diphenylhydrazohexamethylene** (v. BAEYER and NOYES), 1889, A., 1148.
- Diphenylmethylcinnamaldazimethylene** (CURTIUS and RAUTERBERG), 1891, A., 1360.
- Diphenylnaphthaleneazammonium hydroxide** and its salts (ZINCKE and LAWSON), 1887, A., 731.
- Diphenylpyrazoloneazobenzene** (KNORR and KLOTZ), 1887, A., 1121.
- Di-*o*- and -*p*-tolylidiamido-*o*-diazothioles** and their derivatives (HECTOR), 1890, A., 527.
- p*-**Di-triazobenzene** (GRIESS), 1888, A., 826.
- m*-**Di-triazobenzoic acid** (GRIESS), 1888, A., 827.
- m*-**Dixylidiamido-*o*-diazothiole** (HECTOR), 1890, A., 528.
- Ethenylazoximebenzenyl** (NORMANN), 1885, A., 239.
- Ethoxyazobenzene** (*benzeneazophenetoil*), base from (NÖLTING and WERNER), 1891, A., 211.
- p*-**Ethoxyazobenzene**, preparation, nature, and reduction of (JACOBSEN and FISCHER), 1892, A., 839.
- Ethoxyazobenzenesulphonic acid** (*benzeneazophenetoilsulphonic acid*) (FEER and MÜLLER), 1889, A., 258.
- Ethylamidoazobenzenesulphonic acid** (*benzeneazoethylanilinesulphonic acid*), sodium salt of (BERNTSEN and GOSKE), 1887, A., 666.
- Ethylazimidobenzene** (HEMPEL), 1890, A., 612.
- Ethylazimidotoluene** (NÖLTING and ABT), 1888, A., 273.
- Ethylic azobenzene- α -methylphenylpyrroline- β -carboxylate** (PAUL and SCHNEIDER), 1887, A., 274.
- azopyromellitate** (NEF), 1886, A., 64; 1887, A., 257; 1888, T., 443.
- azoxypropionate** (CURTIUS and KOCH), 1889, A., 376.
- benzeneazocamphocarboxylate** (HALLER), 1892, A., 1344.

AZO-COMPOUNDS —

- Ethylic benzenediazo- $\Delta^{1.4}$ and - $\Delta^{2.5}$ dihydroterephthalates** (v. BAEYER and v. BRÜNING), 1891, A., 1487.
- benzenediazoterephthalate** (v. BAEYER and BRÜNING), 1891, A., 1487.
- benzenylazoximemethenylcarboxylate** (WURM), 1890, A., 259.
- cinnamic diazoacetate** (BUCHNER), 1888, A., 1275.
- diazoacetate and its derivatives** (CURTIUS), 1884, A., 987.
- constitution of** (CURTIUS), 1889, A., 586.
- action of, on aromatic hydrocarbons** (BUCHNER and CURTIUS), 1885, A., 1207.
- diazobenzoate** (CURTIUS), 1891, A., 55.
- diazosuccinamate and diazosuccinates** (CURTIUS and KOCH), 1885, A., 885.
- diphenylazimethylenedicarboxylate** (CURTIUS and LANG), 1892, A., 453.
- methylthiazolecarboxylate diazohydrate** (WOHMANN), 1891, A., 225.
- β -naphtholazophenyllutidinedicarboxylate** (LEPETIT), 1887, A., 1053.
- α -naphthylazoacetate** (ODDO), 1891, A., 1381; 1892, A., 367.
- phenylazo-acetyl- and -benzoylpyruvates** (BEYER and CLAISEN), 1888, A., 829.
- phenyl- β -azocrotonate** (BENDER), 1888, A., 53; (NEF), 1892, A., 143.
- triazacetate** (CURTIUS and LANG), 1889, A., 370.
- Ethylpyrrolineazo- β -naphthalene** (FISCHER and HEPP), 1886, A., 1042.
- Ethylpyrrolineazo-*p*-toluene** (FISCHER and HEPP), 1886, A., 1042.
- Ethylpyrrolinediazo-*p*-toluene** (FISCHER and HEPP), 1886, A., 1042.
- Glutarediazoximediethenyl** (BIEDERMANN), 1890, A., 126.
- p*-**Hexazobenzene** (GRIESS), 1888, A., 826.
- Hexazobenzoic acid** (GRIESS), 1888, A., 827.
- Hexazoxybenzene** (JANOVSKY and ERB), 1887, A., 479; (JANOVSKY), 1887, A., 664; (WILLGERODT), 1890, A., 1117.
- Homobenzenyl-**. See Tolonyl-

AZO-COMPOUNDS.—

- Homo-*o*-phthalethylimidoazobenzene** (PULVERMACHER), 1887, A., 1111.
- Homo-*o*-phthalimidoazobenzene** (GABRIEL), 1887, A., 726.
- Homoterephthalenediazoximedibenz-enyl** (ROSENTHAL), 1890, A., 147.
- Homoterephthalenediazoximedieth-enyl** (ROSENTHAL), 1890, A., 147.
- Hydroxyazobenzene** (*benzeneazophen-ol*), action of phosphoric chloride on (HEUMANN and PAGANINI), 1891, A., 301.
- m*-**dinitro-** (KLINGER and PITTSCHKE), 1886, A., 53.
- Hydroxy-*p*-azobenzenesulphonic acid**, salts of (LIMPRICHT), 1891, A., 1037.
- Hydroxyazo-compounds** (MEYER and KREIS), 1883, A., 982; (FISCHER and WINNER), 1887, A., 819; (GOLDSCHMIDT and ROSELL), 1890, A., 614; (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.
- o*-**Hydroxyazo-dyes**. See under Colouring matters.
- 3-Hydroxy-4-azo-1-methylquinoline** (NÖLTING and TRAUTMANN), 1891, A., 328.
- Hydroxyazotoluidine** and its salts (LIMPRICHT), 1885, A., 975; (GRAEFF), 1885, A., 1128.
- m*-**Hydroxybenzenylazoximebenzenyl** (SCHÖPFF), 1885, A., 1217.
- p*-**Hydroxybenzenylazoximebenzenyl** (KRONE), 1891, A., 700.
- m*-**Hydroxybenzenylazoxime-ethenyl** (CLEMM), 1891, A., 700.
- p*-**Hydroxybenzenylazoxime-ethenyl** (KRONE), 1891, A., 700.
- m*-**Hydroxybenzenylazoximeprop-enyl- ω -carboxylic acid** (CLEMM), 1891, A., 699.
- p*-**Hydroxybenzenylazoximeprop-enyl- ω -carboxylic acid** (KRONE), 1891, A., 700.
- p*-**Hydroxy-*o*-tolenylazoximebenzenyl** (PASCHEN), 1892, A., 320.
- p*-**Hydroxy-*m*-tolenylazoximebenzenyl** (GOLDBECK), 1892, A., 319.
- o*-**Hydroxy-*p*-tolenylazoxime-ethenyl** (GOLDBECK), 1892, A., 319.
- p*-**Hydroxy-*o*-tolenylazoxime-ethenyl** (PASCHEN), 1892, A., 321.
- p*-**Hydroxytolenylazoximepropenyl- ω -carboxylic acid** (GOLDBECK), 1892, A., 319.
- Ketazodiphenyl ketone** (CURTIUS), 1889, A., 1157.
- Leucazocamphene** (TANRET), 1888, A., 720.

AZO-COMPOUNDS.—

- Levulinicphenylhydrazoneazobenzene** (VOLHARD), 1892, A., 436.
- Methaneazobenzene**, iodonitro- (RUS-SANOFF), 1892, A., 1416.
- Methaneazobenzoic acid**, nitro- (GRIES), 1885, A., 788.
- Methoxybenzenylazoximebenzenyl**, *o*- and *p*- (MILLER), 1889, A., 254.
- p*-**Methoxybenzenylazoxime-ethenyl** (MILLER), 1889, A., 254.
- p*-**Methoxybenzenylazoximeprop-enyl- ω -carboxylic acid** (MILLER), 1889, A., 255.
- o*-**Methoxycinnamic acid diazo-chloride** (SCHNELL), 1887, A., 140.
- p*-**Methoxydiazobenzenesulphonic acid** (ALTSCHUL), 1892, A., 1081.
- Methylamidoazobenzene** (*benzeneazomethylaniline*) and its acetyl derivative (BERJU), 1884, A., 1149.
- Methylamidoazobenzenesulphonic acid**, sodium salt of (BERNTHSEN and GOSKE), 1887, A., 666.
- Methylazimidothiazolecarboxylic acid** (WOHMANN), 1891, A., 226.
- Methyltrichlorobromazimidobenzene** (ZINCKE and ARZBERGER), 1889, A., 502.
- Methyldiazoamidobenzene** (*diazobenzenomethylanilide*) (FRISWELL and GREEN), 1886, T., 748.
- Methylic acetylenedicarboxylodiazooacetate** (BUCHNER), 1889, A., 694.
- benzeneazocyanacetate* (HALLER), 1888, A., 824.
- benzeneazodinitrophenylacetate* (MEYER), 1888, A., 698.
- azomethylenecarboxylate* (CURTIUS and LANG), 1892, A., 452.
- tolueneazocyanacetates*, 1:2- and 1:4- (HALLER), 1888, A., 824.
- benzeneazocamphocarboxylate* (HALLER), 1892, A., 1344.
- diazoacetate*, action of, on the ethereal salts of unsaturated acids (BUCHNER), 1889, A., 694; 1890, A., 736.
- α -diazopropionate* (CURTIUS and LANG), 1892, A., 452.
- diazosuccinamate* (CURTIUS and KOCH), 1887, A., 34.
- fumaric diazoacetate* (BUCHNER), 1888, A., 1274.
- 2'-Methylindoleazobenzene** (WAGNER), 1888, A., 284.
- Methyl-*o*-nitro-*p*-diazobenzene chloride**, nitroso- (*p*-*diazotoluenechloride*, *o*-nitro- ω -nitroso-) (MEYER), 1886, A., 63.

AZO-COMPOUNDS—

- Methyldinitrophenylacetateazobenzenesulphonic acid**, sodium salt of (HAUSSKNECHT), 1889, A., 507.
- Methyldinitrophenylacetateazonaphthalene** (HAUSSKNECHT), 1889, A., 506.
- Methyldinitrophenylacetateazotoluene** (HAUSSKNECHT), 1889, A., 506.
- Methyldinitrophenylacetateazoxylene** (HAUSSKNECHT), 1889, A., 506.
- Methylpyrrolinebisazobenzene** (FISCHER and HEPP), 1886, A., 1041.
- Methyltetrahydroquinoline-1-and-3-azobenzenesulphonic acids**, 1- and 3- (BAMBERGER and WULZ), 1891, A., 1254.
- Methyl-*p*-toluidine-*o*-azobenzene-sulphonic acid** (BAMBERGER and WULZ), 1891, A., 1203.
- α -Naphthaleneazoacetic acid** (ODDO), 1891, A., 1382.
- Naphthaleneazoacetoacetic acids**, α - and β - (ODDO), 1891, A., 1381.
- α -Naphthaleneazoacetone** (ODDO), 1891, A., 1382.
- 1:2:2'- β -Naphthaleneazodihydroxynaphthalene** (CLAUSIUS), 1890, A., 628.
- α -Naphthaleneazo- α -hydroxynaphthoic acid** (BISCHOFF), 1890, A., 1148.
- β -Naphthaleneazo-*o*- and -*p*-hydroxyquinolines** (MATHIUS), 1888, A., 851, 852.
- Naphthaleneazonaphthalene**. See Azonaphthalene.
- Naphthaleneazo- β -naphthylanilines**, α - and β - (MATTHIES), 1890, A., 993.
- Naphthaleneazophenylenediamineazotoluene** (GRIESS), 1883, A., 1103.
- Naphthaleneazosalicilic acids** (GEBEK), 1889, A., 780.
- Naphthalenebisazobenzenes**, α - and β - (NIETZKI and DIESTERWEG), 1888, A., 1083.
- α -Naphthalenebisazobenzene** (KROHN), 1889, A., 152.
- β -Naphthenylazoximeacetylenyl** (RICHTER), 1890, A., 62.
- β -Naphthenylazoximebenzenyl** (RICHTER), 1890, A., 62.
- Naphthenylazoxime-ethenyls**, α - and β - (EKSTRAND), 1887, A., 373.
- β -Naphthenylazoximenaphthenyl** (EKSTRAND), 1887, A., 374.
- Naphtholazobenzenes** (DENARO), 1886, A., 246.
- derivatives of (MARGARY), 1884, A., 326; 1885, A., 546.

AZO-COMPOUNDS—

- Naphthol-*p*-azobenzeneazodimethylanilines**, α - and β - (MELDOLA), 1884, T., 109, 110.
- β -Naphthol-*p*-azobenzeneazodiphenylamine** (MELDOLA), 1883, T., 441.
- β -Naphthol-*p*-azobenzeneazodiphenylethylamine** (MELDOLA), 1884, T., 111.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazo-*p*-naphthol** (MELDOLA), 1883, T., 437.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazo-*p*-naphtholdisulphonic acid** (MELDOLA), 1883, T., 438.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazophenol** (MELDOLA), 1883, T., 439.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazoresorcinol** (MELDOLA), 1883, T., 439.
- α -Naphtholazobenzeneazo- β -naphthol**, and its disulphonic acid (*sodium salt*) (MELDOLA), 1885, T., 664.
- Naphtholazobenzeneazo- α - and - β -naphthols**, α - and β - (MELDOLA), 1885, T., 663, 664.
- Naphtholazobenzeneazophenols**, α - and β - (MELDOLA), 1885, T., 665, 666.
- Naphtholazobenzeneazoresorcinols**, α - and β - (MELDOLA), 1885, T., 665, 666.
- β -Naphtholazobenzeneazosalicilic acid** (MELDOLA), 1885, T., 667.
- β -Naphthol-*p*-azobenzeneazo-*m*-xyleneazo- β -naphthol** (MELDOLA), 1883, T., 439.
- β -Naphtholazonitro- ψ -cumenesulphonic acid** (MAYER), 1887, A., 953.
- α -Naphtholbisazo-*p*-benzene-*o*-toluene** (*benzeneazonaphtholazotoluene*) (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Naphthol-*p*-azodiphenylsulphonic acids**, α - and β -, sodium salts of (CARNELLEY and SCHLESSELMANN), 1886, T., 383.
- α -Naphtholbisdiazobenzene** (KROHN), 1889, A., 152.
- β -Naphthylamine**, azo-derivatives of (MELDOLA and HUGHES), 1891, T., 372; P., 83.
- constitutional formula for the azo-derivatives of (MELDOLA), 1884, T., 118.
- β -Naphthylamines**, secondary, azo-derivatives of (MATTHIES), 1890, A., 992.

AZO-COMPOUNDS—

- Naphthylphenylethylazammonium iodide** (ZINCKE and CAMPBELL), 1890, A., 787.
- Nicotenylazosulphimecarbanilide** (MICHAELIS), 1892, A., 208.
- Nicotenylazoximebenzenyl** (MICHAELIS), 1892, A., 207.
- Nicotenylazoximepropenyl- ω -carboxylic acid** (MICHAELIS), 1892, A., 207.
- Oxaleneanilidoximeazoxime-ethenyl** (ZINKEISEN), 1890, A., 124.
- Oxalenediazoximedibenzyl** (ZINKEISEN), 1890, A., 123.
- Oxalenediazoximedipropenyldicarboxylic acid** (ZINKEISEN), 1890, A., 123.
- Oxyazo-compounds** (GOLDSCHMIDT and POLLAK), 1892, A., 974.
action of phosphoric chloride on (PAGANINI), 1891, A., 556.
- p*-Phenetilazo-*p*-cresol** (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- m*-Phenetilazo- β -naphtholsulphonic acid** (WAGNER), 1885, A., 1212.
- p*-Phenetilazoresorcinol** (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Phenolazimidonaphthalenes, *o*- and *p*-** (ZINCKE), 1886, A., 244, 245.
- Phenolazoacetyl-*m*-amidobenzene** (WALLACH and SCHULZE), 1883, A., 583.
- Phenolazoamidobenzene hydrochloride** (WALLACH and SCHULZE), 1883, A., 583.
- Phenol-*p*-azobenzeneazo-*p*-dimethylaniline** (MELDOLA), 1884, T., 111.
- Phenolazobenzeneazo-*p*-phenol** (MELDOLA), 1885, T., 659.
- Phenol-*p*-azodiphenylsulphonic acid, sodium salt of** (CARNELLEY and SCHLESELMANN), 1886, T., 382.
- Phenolazobenzene-*p*-sulphonic acid** (GRIESS), 1883, A., 181.
- Phenolbisazobenzene, constitution of** (GOLDSCHMIDT and POLLAK), 1892, A., 976.
- Phenolbisazo-*o*- and -*p*-benzenes, and -*o*- and -*p*-toluenes** (GOLDSCHMIDT and POLLAK), 1892, A., 976.
- Phenolbisazotoluene** (NÖLTING and WERNER), 1891, A., 212.
- Phenolbisazo-*o*-toluene** (PAGANINI), 1891, A., 557.
- Phenolbisazo-*p*-toluene** (GOLDSCHMIDT and POLLAK), 1892, A., 976.

AZO-COMPOUNDS—

- o*-Phenylazimidobenzene** (SCHÖPFF), 1890, A., 1113; (KEHEMANN and MESSINGER), 1892, A., 889.
- amido-** (WILLGERODT), 1892, A., 1322.
- tetranitro-** (WILLGERODT), 1892, A., 1454.
- 3:4-Phenylazimidobenzoic acid** (SCHÖPFF), 1890, A., 374.
- 1:2-Phenylazimido-3-chlorobenzene** (ERNST), 1891, A., 300.
- $\alpha\beta$ -Phenylazimidonaphthalene** (ZINCKE), 1886, A., 244; (ZINCKE and CAMPBELL), 1890, A., 787.
- ψ -Phenylazimidonaphthalene** (CLAUS), 1890, A., 788.
- Phenylazimidotolylamine, dinitro-** (ERNST), 1891, A., 300.
- Phenylazo-**. See also Benzeneazo-.
- Phenylazoacetoacetaldehyde** (*benzeneazoacetoacetaldehyde*) (BEYER and CLAISEN), 1888, A., 827.
- Phenylazoacetoacetic acid** (*benzeneazoacetoacetic acid*), *o*-nitro-, and its derivatives (BAMBERGER), 1885, A., 157.
- Phenylazoacetone**. See Pyruvaldehydephenylhydrazone.
- Phenylazoacetophenone** (*benzeneazoacetophenone*), and *o*-nitro- (BAMBERGER and CALMAN), 1886, A., 62.
- Phenylazoacetylacetone** (*benzeneazoacetylacetone*) (BEYER and CLAISEN), 1888, A., 828.
- Phenylazoxazolecarboxylic acid** (NUSSEBERGER), 1892, A., 1178.
- Phenyl-*p*-chloronitrazobenzene** (*benzeneazo-*p*-chloronitrobenzene*), 2:4-dinitro- (WILLGERODT and BÜHM), 1891, A., 906.
- o*-Phenylenediazo sulphide** (JACOBSON), 1889, A., 135.
- Phenylenediazosulphidecarboxylic acid** (PFITZINGER and GATTERMANN), 1889, A., 868.
- Phenylethenylazoximebenzenyl** (KNUDSEN), 1885, A., 897.
- p*-cyano-** (ROSENTHAL), 1890, A., 148.
- Phenylethenylazoxime-ethenyl** (KNUDSEN), 1885, A., 898.
- Phenylethenylazoximepropenyl- ω -carboxylic acid** (KNUDSEN), 1885, A., 1218.
- Phenylethylamidobenzeneazophenylethylaniline** (LIPPMANN and FLEISSNER), 1884, A., 180.
- Phenylic diazobenzenesalicylate** (LIMPRICHT), 1891, A., 1036.

AZO-COMPOUNDS—

- Phenylmethaneazobenzene, *o*-nitro- (PAAL and BODEWIG), 1892, A., 1456.
- Phenylmethylamidobenzeneazotri-bromobenzene (SILBERSTEIN), 1883, A., 662.
- Phenylmethylpyrazoloneazobenzene (KNORR), 1887, A., 602; (V. BUCHKA and SPRAGUE), 1890, A., 29; (SPRAGUE), 1891, T., 336.
- identity of, with phenylhydrazine-ketophenylmethylpyrazolone (KNORR), 1888, A., 724.
- 1-Phenyl-3:5-pyrazolidone-4-azobenzene (MICHAELIS and BURMEISTER), 1892, A., 1005.
- Phenylpyrroloneazobenzene (FISCHER and HEPF), 1886, A., 1042.
- Picrylazonaphthalenes (*benzeneazonaphthalenes, trinitro-*) (WILLGERD and SCHULZ), 1891, A., 572.
- Picryl-*m*-chlorazobenzene (*benzene-*m*-chlorazobenzene, trinitro-*) (WILLGERD and MÜHE), 1892, A., 454.
- Picryl-*p*-chlorazobenzene (*benzene-*p*-chlorazobenzene, trinitro-*) (WILLGERD and BÖHM), 1891, A., 905.
- Picryl-*p*-chloronitrazobenzene (*benzeneazochloronitrobenzene, 1 trinitro-*) (WILLGERD and BÖHM), 1891, A., 906.
- Polyazo-compounds (WILLGERD), 1890, A., 1118.
- Propane-*p*-bisazoanisole, *dinitro-* (KEPPLER and MEYER), 1892, A., 1062.
- Propanebisazobenzene, *dinitro-* (KEPPLER and MEYER), 1892, A., 1062.
- Propanebisazotoluene, *dinitro-* (KEPPLER and MEYER), 1892, A., 1062.
- Propionyl-*a*-naphtholazobenzene (GOLDZWEIG and KAISER), 1891, A., 448.
- Propyleneazobenzene, *nitro-* (MEYER), 1892, A., 575.
- Propylene-*p*-azoanisole, propyleneazobenzene, propylene-*m*-azobenzoic acid, propyleneazo-*m*-bromobenzene, propyleneazo- ψ -cumene, propylene-*p*-azophenetole, and propylene-*o*- and -*p*-azotoluenes, *nitro-*, derivatives of (ASKENASY and MEYER), 1892, A., 1062.
- Pyrroloneazobenzene, pyrroloneazobenzeneazo- β -naphthalene, pyrroloneazo-*p*-dimethylamidobenzene, pyrroloneazo- α - and β -naphthalenes, pyrroloneazo-*p*-toluene

AZO-COMPOUNDS—

- pyrrolinebisazobenzene, and pyrrolinebisazo- α - and - β -naphthalenes (FISCHER and HEPP), 1886, A., 1041.
- Quinol-*p*-azodiphenylsulphonic acid, sodium salt of (CARNELLEY and SCHLESELMANN), 1886, T., 382.
- Resorcinol-*p*-azobenzeneazodimethylaniline (MELDOLA), 1884, T., 110.
- Resorcinolazobenzeneazoresorcinol (MELDOLA), 1885, T., 661.
- Resorcinol-*p*-azodiphenylsulphonic acid, sodium salt of (CARNELLEY and SCHLESELMANN), 1886, T., 382.
- Resorcinolbisazobenzenes, 1:3:2:4- and 1:3:4:6- (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Salicylazoximebenzenyl (SPILKER), 1890, A., 143.
- Salicylazoxime-ethenyl (SPILKER), 1890, A., 143.
- Salicylazoximepropenyl- ω -carboxylic acid (MILLER), 1890, A., 146.
- Salicylaldehyde-*m*- and -*p*-azobenzenesulphonic acids (TUMMELEY), 1889, A., 779, 780.
- Salicylamide-*p*-azobenzenesulphonic acid (TUMMELEY), 1889, A., 780.
- Succinylazoxybenzene (SEMBRITZKI), 1888, A., 935.
- Succinyl diazoximedibenzenyl (SEMBRITZKI), 1890, A., 125.
- Sulphanilazocumenol, potassium salt of (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Sulphobenzeneazodiamidobenzoic acid (GRIESS), 1883, A., 184.
- Sulphobenzeneazoamidotetrahydronaphthol (BAMBERGER and BAMMAN), 1889, A., 784.
- Sulphobenzenediazoamido-3-methyltetrahydroquinoline (BAMBERGER and WULZ), 1891, A., 1255.
- Sulphobenzenediazoamidomethyl-*p*-toluidine (sulphobenzeneazomethyltoluidide) (BAMBERGER and WULZ), 1891, A., 1203.
- Sulphobenzeneazoethyl- α -naphthylamine (BAMBERGER and GOLDSCHMIDT), 1891, A., 1239.
- p*-Sulphobenzeneazo- α -naphthol (NÖLTING and GRANDMOUGIN), 1891, A., 1074.
- Sulphobenzeneazonaphthylaminesulphonic acids (azoximidosulphonaphthalenebenzenesulphonic acids) (GRIESS), 1883, A., 182, 183.

AZO-COMPOUNDS—

- p*-Sulphobenzeneazo-*o*-nitrophenol, Griess' (MEYER and KREIS), 1883, A., 982.
- Sulphobenzeneazo-*ar*-octohydro-*a*-naphthaquinoline (BAMBERGER and STETTENHEIMER), 1891, A., 1260.
- Sulphobenzeneazo-*ar*-octohydro-*β*-naphthaquinoline (BAMBERGER and STRASSER), 1891, A., 1514.
- Sulphobenzeneazo-*β*-naphthylphenylamine (WITT), 1887, A., 590.
- Sulphobenzeneazotetrahydro-*α*-naphthaquinoline (BAMBERGER and STETTENHEIMER), 1891, A., 1259.
- Sulphobenzeneazo-*ar*-tetrahydro-*α*-naphthol (BAMBERGER and BORDT), 1890, A., 509.
- Sulphobenzeneazo-*α*-tetrahydronaphthylamine (BAMBERGER and BORDT), 1889, A., 715.
- Sulphobenzeneazotetrahydroquinoline (BAMBERGER), 1890, A., 1302.
- Sulphonamidobenzeneazobenzenesulphonamide (LIMPRICHT and MEYER), 1892, A., 973.
- Sulphonamidobenzeneazodibromobenzenesulphonamide, *dibromo*-, and sulphonamidobenzeneazotribromobenzenesulphonamide, *tri-bromo*- (RODATZ), 1883, A., 479, 480.
- Sulpho-*o*- and -*p*-tolylazo-*m*- and -*p*-cresols (*sulphotolueneazocresols*) and salts (NÖLTING and KOHN), 1884, A., 901, 902.
- Sulphoxyleneazo-*β*-naphtholdisulphonic acid, spectrum of (HARTLEY), 1887, T., 188.
- Tetrahydronaphthaleneazo-*α*-naphthylamine (BAMBERGER and BORDT), 1889, A., 715.
- Tetrahydronaphthaleneazo-*β*-naphthylamine, amido- (BAMBERGER and BAMMANN), 1889, A., 733.
- Tetrahydronaphthaleneazoresorcinol (BAMBERGER and BORDT), 1889, A., 716.
- Tetramethyldiamidoazobenzene (*dimethylamidobenzeneazodimethylaniline*) (NÖLTING and KOHN), 1885, A., 386; (BARBIER and VIGNON), 1888, A., 54.
- Tetrazodiphenol (KUNZE), 1889, A., 262.
- Tetrazodiphenyl (TÄUBER), 1891, A., 570.
- Tetrazodiphenyldisulphonic acid (LIMPRICHT), 1891, A., 930.

AZO-COMPOUNDS—

- Tetrazoleazodimethylaniline (THIELE), 1892, A., 1299.
- Tetrazoleazo-*β*-naphthylamine (THIELE), 1892, A., 1299.
- Tetrazostilbene, dyes from (BENDER and SCHULTZ), 1887, A., 268.
- p*-Tolenylamidine-*p*-tolenylazosulphimecarbohydrosulphide (CRAYEN), 1891, A., 560.
- p*-Tolenylazosulphimecarbo-di- and -hydro-sulphides (CRAYEN), 1891, A., 560.
- p*-Tolenylazoximeacetylenyl (SCHUBART), 1890, A., 48.
- o*-Tolenylazoximebenzenyl (SCHUBART), 1890, A., 49.
- p*-Tolenylazoximebenzenyl (SCHUBART), 1886, A., 798.
- p*-Tolenylazoxime-ethenyl (SCHUBART), 1890, A., 47.
- p*-Tolenylazoximepropenyl-*ω*-carboxylic acid (SCHUBART), 1890, A., 48.
- o*-Tolenylazoxime-*o*-tolenyl (STIEGLITZ), 1890, A., 256.
- p*-Tolenylazoxime-*p*-tolenyl (SCHUBART), 1890, A., 48.
- Tolueneazimidotoluene (ZINCKE and LAWSON), 1887, A., 731.
- p*-Tolueneazoacetone (v. RICHTER and MÜNZER), 1884, A., 1342.
- Tolueneazochlorobenzenes, *o*- and *p*- (PAGANINI), 1891, A., 556, 557.
- Tolueneazocyanocamphors, *o*- and *p*- (MINGUIN), 1892, A., 1343.
- Tolueneazodimethylaniline, and its *p*-azo-*β*-naphthol and *p*-azophenol compounds (WALLACH), 1887, A., 41.
- Toluene-*o*- and -*p*-azodimethylanilines, *o*- and *p*-acetamido- and *o*- and *p*-amido- (WALLACH), 1887, A., 41.
- p*-Tolueneazo-*o*- and -*p*-hydroxyquinolines (MATHÉUS), 1888, A., 851, 852.
- Tolueneazo-*α*-naphthol, amido-, methyl and ethyl ethers of (WITT and SCHMIDT), 1892, A., 863.
- Tolueneazo-*α*- and -*β*-naphthols, *o*- and *p*-, and their derivatives (ZINCKE and RATHGEN), 1887, A., 55.
- p*-Tolueneazo-*β*-naphthylphenylamine (MATTHES), 1890, A., 992.
- Tolueneazophenols, *o*- and *m*- (PAGANINI), 1891, A., 556, 557.
- Tolueneazophenylenediamineazobenzene (GRIESS), 1883, A., 1103.
- Tolueneazophenylic phosphates, *o*- and *p*- (PAGANINI), 1891, A., 556, 557.

AZO-COMPOUNDS—

- p*-Tolueneazoresorcinol (HEUMANN and OECONOMIDES), 1887, A., 664.
- Tolueneazotoluene. See also Azo-toluene.
- Tolueneazotoluene-di-*o*-sulphonic acid (*p*-azobenzylbisulphonic acid) (MOHR), 1884, A., 69.
- o*-Tolueneazo-*m*-toluene (SCHULTZ), 1884, A., 903.
- Toluenediazoacetotolulide (HEUSLER), 1892, A., 459.
- Toluene-*p*-diazoniine (WALLACH), 1887, A., 137.
- Toluene-*o*-, and *p*-diazopiperidides and their nitro-derivatives (WALLACH), 1887, A., 137.
- Toluylazimide (NIEMENTOWSKI), 1888, A., 837.
- p*-Tolylazimidobenzene, amido- (WILLGERODT), 1892, A., 1322.
- Toluene-*p*-azoacetacetic acid, *m*-nitro-, and *m*-amido- (BAMBERGER), 1885, 157, 158.
- Toluene-*p*-azoacetone, *m*-nitro- (BAMBERGER), 1885, A., 158.
- Toluene-*p*-azobenzoylacetic acid, *m*-nitro-, the corresponding acetophenone, and the ketoxime (BAMBERGER and CALMAN), 1886, A., 62.
- p*-Tolueneazo-*p*-cresetol (NÖLTING and WERNER), 1891, A., 214.
- p*-Tolueneazo-*p*-cresol, and its acetic and benzoic derivatives (NÖLTING and KOHN), 1884, A., 901.
- Tolueneazo-*o*- and -*p*-cresols, *o*- and -*p*- (NÖLTING and WERNER), 1891, A., 212.
- p*-Toluene-*o*-azodibenzylamine (LELLMANN and ARNOLD), 1892, A., 316, 890.
- p*-Tolueneazodimethylaniline, nitro-derivatives of (NÖLTING), 1888, A., 270.
- p*-Tolueneazodimethylanilinesulphonic acid (NÖLTING), 1888, A., 271.
- Tolueneazophenetoils, *o*- and -*p*- (NÖLTING and WERNER), 1891, A., 212.
- o*-Tolueneazophenol (NÖLTING and WERNER), 1891, A., 212.
- o*-Tolueneazo-*o*-tolylthio- and -dithio-biazolones (FREUND), 1892, A., 513.
- p*-Tolueneazo-*p*-tolylthiobiazolone and *p*-tolueneazo-*p*-tolyl- ψ -thiobiazolone (FREUND), 1892, A., 512.
- Tolylenediamineazobenzeneazobenzene-sulphonic acid (*azosulphobenzene-toluenediamine*) (GRIESS), 1883, A., 1103.
- Tolylenic diazosulphide (JACOBSON and NEY), 1889, A., 772.

AZO-COMPOUNDS—

- Triazimidoacetamide (CURTIUS and LANG), 1889, A., 370.
- Triazoacetamide (CURTIUS and LANG), 1889, A., 370.
- Triazoacetic acid (CURTIUS and LANG), 1889, A., 369.
- constitution of (CURTIUS), 1889, A., 587.
- Triazobenzene (GRIESS), 1886, A., 459; (ODDO), 1891, A., 696.
- physiological action of (ODDO), 1892, A., 366.
- p*-amido- (GRIESS), 1888, A., 826.
- Triazobenzenedisulphonic acid (LIMPRICHT), 1889, A., 399.
- m*-Triazobenzenesulphonic acid (LIMPRICHT), 1889, A., 397.
- p*-Triazobenzenesulphonic acid and its derivatives (GRIESS), 1887, A., 817.
- m*-Triazobenzoic acid (GRIESS), 1886, A., 459.
- m*-amido- (GRIESS), 1888, A., 826.
- Triazo-*o*-bromobenzenesulphonic acid (LIMPRICHT), 1889, A., 399.
- Triazonaphthalenesulphonic acid and its derivatives (GRIESS), 1887, A., 818.
- m*-Triazo-oxalamidobenzoic acid (GRIESS), 1888, A., 827.
- Triazo-*o*-toluenesulphonic acids, *o*- and -*p*- (LIMPRICHT), 1889, A., 398.
- Trimethylazobenzeneammonium iodide (BERJU), 1884, A., 1149.
- Triphenylmethylazimethylene (CURTIUS and RAUTERBERG), 1891, A., 1360.
- Xyleneazoresorcinol (FISCHER and WIMMER), 1887, A., 820.
- Xyleneazoxylene. See Azoxylene.
- m*-Xylenediazopiperidide, nitro- (AHRENS), 1892, A., 1437.
- Xylylenic diazosulphide (JACOBSON and NEY), 1889, A., 772.
- Azo-group, intramolecular formation of (LELLMANN and ARNOLD), 1892, A., 316.
- substitution of, for ketonic oxygen (CURTIUS), 1889, A., 1157; (CURTIUS and LANG), 1889, A., 451.
- Azoles (HANTZSCH), 1889, A., 413.
- Azonium bases (WITT), 1887, A., 729; 1891, A., 1108; (KEHRMANN and MESSINGER), 1891, A., 945, 1109; 1892, A., 1108; (WITT and SCHMIDT), 1892, A., 1246.
- Azophenine (WITT and THOMAS), 1883, T., 115; (WITT), 1887, A., 821; 1888, A., 51; (FISCHER and HEPP), 1887, A., 1105; 1888, A., 472, 1291.

- Azophenine**, constitution of (FISCHER and HEPP), 1887, A., 1105.
 formation of (FISCHER and HEPP), 1890, A., 614.
 synthesis of (v. BANDROWSKI), 1888, A., 1081.
 derivatives of (FISCHER and HEPP), 1888, A., 472.
tetrabrom- and *chlor-* (FISCHER and HEPP), 1887, A., 1105.
Azotine (DEHÉRAIN), 1885, A., 424.
Azotometer, Scheibler's, modification of (SONDÉN), 1883, A., 508.
 Zulkowsky's, modification of (GAWALOWSKI), 1885, A., 593.
Azotometry and the azotometer (KNOP), 1886, A., 1072.
Azulene (HOCK), 1884, A., 82.
Azulmic matter, oxidation of, obtained by electrolysis of ammonia with carbon electrodes (MILLOT), 1888, A., 242.
Azurite, crystallised, from Arizona (FARRINGTON), 1891, A., 992.
Azylines (LIPPMANN and FLEISSNER), 1883, A., 53, 184, 868, 1100; 1884, A., 178, 179; (NÖLTING), 1885, A., 895.

B.

- Bacillus**, investigation of (KUNZ), 1888, A., 1122.
Bacillus acidi laevolactici (SCHARDINGER), 1891, A., 666.
amylozymicus (PERDRIX), 1892, A., 90.
anthracis (KLEIN), 1886, T., 200; (HANKIN), 1889, A., 1234.
 chemical pathology of (MARTIN), 1892, A., 744.
 in man (MARTIN), 1892, A., 1117.
butylicus, nature of the alcohols formed in the fermentation by (MORIN), 1888, A., 125.
 products of fermentation with (FITZ), 1884, A., 765.
 cattle plague (METZDORF), 1884, A., 1398.
 cholera, formation of ptomaines by (POEHL), 1886, A., 731.
 reduction of nitrates by (PETRI), 1890, A., 76.
 comma (KUNZ), 1888, A., 1123.
 odour and poisonous effects of the products of the fermentation produced by (NICATI and RIETSCH), 1885, A., 180.
 poisonous product of the culture of (NICATI and RIETSCH), 1886, A., 169.
 from *Erythema nodosum*, chemical composition of (BOVET), 1889, A., 539.
Bacillus ethaceticus (FRANKLAND and FOX), 1890, A., 916.
 fermentation of arabinose by (FRANKLAND and MACGREGOR), 1892, T., 737; P., 132.
 fermentation of calcium glycerate by (FRANKLAND and FREW), 1890, P., 173; 1891, T., 81.
 fermentation of mannitol and dextrose by (FRANKLAND and LUMSDEN), 1892, T., 442; P., 70.
ethacetosuccinicus, fermentation of mannitol and dulcitol by (FRANKLAND and FREW), 1892, T., 254.
 morphological characterisation of (FRANKLAND), 1892, T., 275.
floccus (WARINGTON), 1888, T., 729.
fluorescens putridus and *B. f. liquefaciens*, chromogenic functions of (GESSARD), 1890, A., 655.
frugi (WARINGTON), 1891, T., 501.
 glands (ISRAËL; WASSILIEFF), 1884, A., 914.
intestinalis (WARINGTON), 1888, T., 729.
leprae, cultivation of (RAKE), 1888, A., 1124.
liquefaciens magnus (NENCKI), 1890, A., 78.
 decomposition of gelatin by (SELITRENNY), 1890, A., 543.
 malignant oedema, action of, on carbohydrates and on lactic acid (KERRY and FRAENKEL), 1890, A., 1454; 1892, A., 91.
 decomposition of albumin by (KERRY), 1890, A., 542.
 panary fermentation (LAURENT), 1887, A., 70.
pyocyaneus (KUNZ), 1888, A., 1122.
 chromogenic functions of (GESSARD), 1890, A., 655.
 colouring matters and aromatic products from (BABÈS), 1890, A., 189.
 transformation and elimination of nitrogenous organic matter by (ARNAUD and CHARRIN), 1891, A., 1132, 1394.
radicicola, accumulation of atmospheric nitrogen in cultivations of (BEYERINCK), 1892, A., 1019.
Rauschbrand (*symptomatic anthrax*) (NENCKI and SIEBER), 1890, A., 78.
 decomposition of gelatin by (SELITRENNY), 1890, A., 543.
spinosus (NENCKI), 1890, A., 78.
 splenic fever, albumin of (NENCKI), 1885, A., 177.

- Bacillus strumitis* (KUNZ), 1888, A., 1122.
suaveolens (SCLAVO and GOSIO), 1891, A., 1284.
subtilis, chemistry of (VANDELDELDE), 1885, A., 287.
sulphureus (WARINGTON), 1888, T., 730.
 swine fever, ptomaines formed in the cultivation of (V. SCHWEINITZ), 1891, A., 476.
tardecrescens and *B. toruliformis* (WARINGTON), 1888, T., 730, 731.
tuberculosis (KLEIN), 1886, T., 201.
 composition of (HAMMERSCHLAG), 1889, A., 638.
 influence of culture fluids and reagents on the growth of (WILLIAMS), 1885, A., 578.
 cultivation products of (CROOKSHANK and HERROUN), 1891, A., 762.
viscosus sacchari and *B. v. vini* (KRAMER), 1890, A., 77.
 See also Bacterium, Fermentation, Ferments, Microbes, Micrococcus.
- Bacteria** (MARPMANN), 1833, A., 364; (BRIEGER), 1885, A., 578.
 chemical constituents of (VINCENZI), 1887, A., 393.
 osmotic experiments with living (WLADIMIROFF), 1891, A., 1131.
 reducing and oxidising properties of (HERAEUS), 1888, A., 313.
 ferment action of (BRUNTON and MACFADYEN), 1890, A., 916.
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Benzophenoneacetic acid, *dithio*- (BONGARTZ), 1886, A., 938.
Benzophenone - *p* - amidobenzoic acid (HANTZSCH and KRAFT), 1892, A., 340.
Benzophenonedicarboxylic acid (*benzoylphthalic acid*) (ROSPENDOWSKI), 1886, A., 626.
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Benzophenone - *p* - dicarboxylic acid (BRÖMME), 1887, A., 484.
Benzophenoneoxime, action of nitric peroxide on (SCHOLL), 1891, A., 315.
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Benzophenoneoximes, amido- (AUWERS and v. MEYENBURG), 1891, A., 1378; (SMITH), 1892, A., 489.
m-bromo- (KOTTENHAHN), 1891, A., 1236.
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dibromo- (DEMUTH and DITTRICH), 1891, A., 315; (HOFFMANN), 1891, A., 1236.
Benzophenoneoximes, *p*-chloro- (DEMUTH and DITTRICH), 1891, A., 314; (HANTZSCH), 1891, A., 445.
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s-*p*-dichloro- (DITTRICH), 1891, A., 1237.
Benzophenonephenylhydrazone (FISCHER), 1884, A., 1151; (PICKEL), 1886, A., 545.
Benzophenonesulphone (GRAEBE and SCHULTESS), 1891, A., 1059.
Benzophenonidene pyrothiophosphite (JAPP and RASCHEN), 1886, T., 481.
Benzophenoxyethylamide (SCHREIBER), 1891, A., 552.
Benzophenylacetonehydrazide (*acetonebenzoylphenylhydrazide*) (RUHEMANN and BLACKMAN), 1889, T., 615.
Benzophenylcarbamide (PINNER), 1889, A., 1005.
preparation of (KÜHN), 1885, A., 260.
Benzo-*o*-phenylenediamine (MIXTER), 1884, A., 1327.
Benzophenylethylthiocarbamide (DIXON), 1889, T., 305.
Benzophenylhydrazide (PERKIN and STENHOUSE), 1891, P., 42.
amido- (PELLIZZARI), 1886, A., 1025.
p-nitro- (HAUSSKNECHT), 1889, A., 507.
as-**Benzophenylhydrazide**, and its derivatives (MICHAELIS and SCHMIDT), 1887, A., 820; 1889, A., 1160.
Benzophenylhydrazides, isomeric (MICHAELIS and SCHMIDT), 1887, A., 365.
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Benzophenylketodihydro-*m*-diazine.
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Benzophenylmethylhydrazide (TAFEL), 1885, A., 1060.
Benzophenylsemicarbazide (MICHAELIS and SCHMIDT), 1887, A., 820.
Benzophenylsemithiocarbazide (DIXON), 1889, T., 304.
Benzophenyltoluenesulphonamide (*toluenesulphonbenzanilide*) (REMSEN and PALMER), 1887, A., 146.
 β -**Benzopinacoline**, constitution of (DELACRE), 1891, A., 456.
Benzopinacolines, α - and β - (PAAL), 1884, A., 1167.
Benzopiperidylthiocarbamide (DIXON), 1889, T., 623.
Benzopiperylhydrazide (KNORR), 1884, A., 467.
Benzoquinol. See Quinol.
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- Benzothiocarbimide** and aldehyde-ammonia (DIXON), 1892, T., 532.
- Benzothio- β -dinaphthylamide** (KYM), 1890, A., 1306.
- Benzothiodiphenylamide** (FRAENKEL), 1885, A., 1130.
- Benzotoluenesulphonamide** (*toluenesulphonbenzamide*) and its derivatives (REMSEN and PALMER), 1887, A., 145.
- Benzo-*o*-toluidide**, thio- (STIEGLITZ), 1890, A., 256.
- Benzo-*p*-toluidide** (MÜLLER), 1890, A., 43.
- p*-nitro-, and nitrothio- (GATTERMANN and NEUBERG), 1892, A., 839.
- thio- (MÜLLER), 1890, A., 839.
- Benzo-*o*- and -*p*-toluidides** (GUDEMAN), 1888, A., 1282.
- Benzo-*p*-toluidimido-chloride** (JUST), 1886, A., 617.
- "Benzotoluidine sulphite" (MICHAELIS), 1891, A., 717.
- Benzo-*o*-tolylcarbamide** (GATTERMANN and CANTZLER), 1892, A., 832.
- Benzo-*o*-tolylhydrazide** (GATTERMANN, JOHNSON, and HÖLZLE), 1892, A., 843.
- Benzotrichloride**, action of copper on (ONUFROWICZ), 1884, A., 1133.
- action of sodium benzenesulphinat on (R. and W. OTTO), 1888, A., 841.
- compounds of, with phenols and phenylamines (DOEBNER), 1883, A., 861.
- p*-chloro- (KLEPL), 1884, A., 447.
- o*-cyano- (GABRIEL and WEISE), 1888, A., 261.
- Benzotrimethyltrifurfuran**. See Benzenotrimethyltrifurfuran.
- Benzoxamidine**. See Benzenylamidoxime.
- Benzoximido-ether** (PINNER), 1884, A., 739.
- Benzo-*m*-xylylamide** (BRÖMME), 1888, A., 1296.
- Benzoxylidide** and its thio-derivative (GUDEMAN), 1888, A., 1282.
- Benzo-*m*-xylidide** (SMITH), 1892, A., 491.
- Benzo-*p*-xylidide** (PFLUG), 1890, A., 606.
- Benzoyl**, amidodicyano-, derivatives of (GRIESS), 1885, A., 1225.
- Benzoylacetalddehyde**, action of hydroxylamine on (CLAISEN and STOCK), 1891, A., 451.
- Benzoylacetaldoxime** (CLAISEN and STOCK), 1891, A., 451.
- Benzoylacetamide** (OBREGIA), 1892, A., 325.
- Benzoylacetanilide** (KNORR), 1888, A., 1113.
- Benzoylactic acid**, and its derivatives (V. BAEYER), 1883, A., 336; (PERKIN), 1884, T., 170, 176; 1885, T., 240, 262; P., 17, 31; (V. BAEYER and PERKIN), 1884, A., 63, 838; (PERKIN and CALMAN), 1886, T., 154; P., 139; (PERKIN and STENHOUSE), 1891, T., 996; P. 190.
- p*-nitro-, and its derivatives (PERKIN and BELLENOT), 1884, A., 1023; 1885, A., 794; 1886, T., 440; P., 193.
- Benzoylacetone** (*acetylacetophenone*) (FISCHER and KUZEL), 1884, A., 60; (GEVEKOHT), 1884, A., 445; (CERESOLE), 1884, A., 1167; (BEYER and CLAISEN), 1887, A., 943; (CLAISEN and LOWMAN), 1888, A., 692.
- preparation of (FISCHER and BÜLOW), 1885, A., 1237.
- magnetic rotation of (PERKIN), 1892, T., 831, 863.
- action of *p*-amidodimethylaniline on (VOGTHERR), 1892, A., 855.
- derivatives of (FISCHER and BÜLOW), 1885, A., 1237.
- dicyanhydrin, acids from (CARLSON), 1892, A., 1471.
- methylimide (BEYER), 1891, A., 1091.
- Benzoylacetone**, α -cyano- (BURNS), 1892, A., 451.
- o*-nitro-derivative of (FISCHER and KUZEL), 1884, A., 59; (GEVEKOHT), 1884, A., 445.
- oxime of (CERESOLE), 1884, A., 1167.
- Benzoylacetoneamine** (FISCHER and BÜLOW), 1885, A., 1237.
- Benzoylacetoneaniline** (BEYER), 1887, A., 849.
- Benzoylacetoneitrile** and its derivatives (HALLER), 1886, A., 240; 1887, A., 826; 1888, A., 873; (BARTHE), 1888, A., 951; (V. MEYER), 1890, A., 849; (CLAISEN and STOCK), 1891, A., 451; (OBREGIA), 1892, A., 324; (GARELLI), 1892, A., 845.
- Benzoylacetophenone**, preparation of (PERKIN), 1885, T., 251.
- Benzoylacetyl**. See Phenyl methyl diketone.
- Benzoylacylacetoneitrile** (*benzoylacetyl-methylic cyanide*) (BURNS), 1892, A., 451.
- Benzoylacylphosphinous acid** (VILLE), 1890, A., 619.
- Benzoylaconine**, formation of (DUNSTAN and PASSMORE), 1892, T., 401.

- Benzoylallylacetic acid** (*benzoylpentenoic acid*) (PERKIN), 1884, T., 185; (BAEYER and PERKIN), 1884, A., 63.
- Benzoylamarine**, and its derivatives (CLAUS and SCHERBEL), 1886, A., 238.
- Benzoylamyl-*d*-ecgonine hydrochloride** (EINHORN and MARQUARDT), 1890, A., 913.
- β -Benzoyl- α -isoamylpropionic acid** (PAAL and HOFFMANN), 1890, A., 1101.
- Benzoylaniline**. See **Benzophenone**, *p*-amido-.
- Benzoylanisensylamidoxime** (MILLER), 1890, A., 145.
- p*-Benzoylanisole** (GATTERMANN, EHRHARDT, and MAISCH), 1890, A., 963.
- Benzoylanthranil**, and **benzoylanthranilic acid**, and its salts (FRIEDLÄNDER and WLEÜGEL), 1884, A., 61.
- Benzoylazoimide** (CURTIUS), 1891, A., 56.
- Benzoylisobenzaldazine** (CURTIUS and THUN), 1891, A., 1356.
- "Benzoylbenzeneazacetone"** and **"benzoylbenzenehydrazo-*o*-cresol"** (GOLDSCHMIDT and POLLAK), 1892, A., 975, 977.
- "Benzoylbenzenehydrazo-*p*-cresol"** and **"benzoylbenzenehydrazo- α -naphthol"** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209, 1211.
- Benzoylbenzenetetracarboxylic acid** (ESSNER and GOSSIN), 1885, A., 254.
- Benzoylbenzenylamidoxime** (TIEMANN and KRÜGER), 1884, A., 1326.
- Benzoylbenzethylhydroxylamine** (PIEPER), 1883, A., 461.
- o*-Benzoylbenzoic acid** (*benzophenone-*o*-carboxylic acid*), anthraquinone from (PERKIN), 1891, T., 1012.
- phenylhydrazine of (ROSER), 1885, A., 797.
- m*-chloro- (GRAEBE and RÉE), 1886, T., 530.
- dichloro- (LE ROYER), 1887, A., 832.
- tetrachloro- (KIRCHER), 1887, A., 831.
- m*-Benzoylbenzoic acid** and its reduction products (SENF), 1884, A., 427.
- Benzoylbenzylamarine** (CLAUS and SCHERBEL), 1886, A., 238.
- Benzoylbromothymol** (MAZZARA), 1890, A., 366.
- Benzoylbutaldehyde** (CLAISEN and MEYEROWITZ), 1890, A., 358.
- Benzoylisobutylecgonine** (NOVY), 1887, A., 1126.
- hydrochloride (EINHORN and MARQUARDT), 1890, A., 913.
- Benzoylbutylic alcohol** (PERKIN), 1887, T., 733; (KIPPING and PERKIN), 1890, T., 309.
- oxime of (KIPPING and PERKIN), 1890, T., 310.
- bromide (PERKIN), 1887, T., 732.
- Benzoylcaproic acid**. See **Benzoylhexoic acid**.
- Benzoylcarbazole** (BIZZARRI), 1891, A., 220; (MAZZARA), 1891, A., 570.
- Benzoylcarbinol** (*hydroxyacetophenone*), constitution of (PLÜCHL and BLÜMLEIN), 1883, A., 983.
- phenylhydrazone (LAUBMANN), 1888, A., 366.
- p*-nitro- (ENGLER and ZIELKE), 1889, A., 505.
- Benzoylcarvoxime** (GOLDSCHMIDT and ZÜRRER), 1885, A., 1058.
- "Benzoyl-*m*- and -*p*-chlorobenzeneazo-*p*-cresols"** and **"benzoyl-*m*-chlorobenzenehydrazo-*p*-cresol"** (GOLDSCHMIDT and POLLAK), 1892, A., 975.
- Benzoyl-compounds**, preparation of (HOFFMANN and MEYER), 1892, A., 604.
- heat equivalents of (STOHMANN, RODATZ, and HERZBERG), 1887, A., 878; 1888, A., 333.
- of carbohydrates, glucosamine and glucosides (KUENY), 1890, A., 578.
- Benzoylcotarnine** and its oxime (ROSER), 1890, A., 528.
- Benzoyl- ψ -cuminol** (FRÖHLICH), 1884, A., 1319.
- Benzoylcyanocamphor** (HALLER), 1891, A., 1499.
- Benzoyldihydropyrroline** (ANDERLINI), 1890, A., 65.
- derivatives of (ANDERLINI), 1890, A., 1430.
- Benzoyldihydroxyanhydroecgonine**, derivatives of (EINHORN and RASSOW), 1892, A., 1016.
- Benzoyldihydroxybenzenesulphonic acid** (*dihydroxybenzophenonesulphonic acid*), ammonium salt of (REMSEN and LINN), 1889, A., 710.
- Benzoyldiphenylsemithiocarbazide** (MICHAELIS and SCHMIDT), 1887, A., 820; 1889, A., 1160.
- Benzoylisodurene** (ESSNER and GOSSIN), 1885, A., 253.
- Benzoylecgonine** (MERCK), 1885, A., 997; (SKRAUP), 1885, A., 1249.
- preparation of (LIEBERMANN and GIESEL), 1889, A., 168.
- conversion of, into cocaine (SKRAUP), 1885, A., 1249.
- Benzoylenecarbamide**. See **2:4'-Diketodihydroquinazoline**.

- Benzoylthoxyfurfurine** (BAHRMANN), 1883, A., 800.
- Benzoyl- α -ethoxynaphthalene** (*ethoxynaphthylphenylketone*) (GATTERMANN, EHRLHARDT, and MAISCH), 1890, A., 964.
- Benzoyl-ethyl- α -carboxylic acid** (*phenyl ethyl ketone α -carboxylic acid*) (ROSER), 1886, A., 243.
- Benzoyl-ethylenecarboxylic acid**, phenylhydrazide of (ROSER), 1885, A., 797.
- α -Benzoyl-ethyl- α -cyanide**. See Benzoyl-propionitrile.
- β -Benzoyl- α -ethylpropionic acid** (*benzoylvaleric acid*) (DITTRICH and PAAL), 1889, A., 257.
- β -Benzoyl- α -ethylsuccinic acid** (DITTRICH and PAAL), 1889, A., 257.
- Benzoylengenol**, dibromo- (WOY), 1890, A., 638.
- Benzoylisoegenol** (TIEMANN), 1892, A., 46.
- Benzoylformic acid**. See Phenylglyoxylic acid.
- Benzoylformoxime**, configuration of (SÖDERBAUM), 1891, A., 1043.
action of hydroxylamine on (SCHOLL), 1891, A., 288.
- Benzoylglutarimidoxime** (GARNY), 1892, A., 138.
- Benzoyl- α -glyoxylic acid**, α -amido- (*quinisatic acid*), and its salts (v. BAEYER and HOMOLKA), 1884, A., 79.
- ω -Benzoylhexoic acid** and its oxime (KIPPING and PERKIN), 1889, T., 350; P., 79.
- Benzoylhomobenzenyl-**. See Benzoyl-hydroxytolenyl-.
- Benzoylhomocenic acid**, and its salts (SCHOTTEN and BAUM), 1885, A., 176.
- Benzoylhomopiperidic acid**. See δ -Benzamidovaleric acid.
- Benzoylhydrochlorocarboxime** (WALLACH), 1892, A., 1348.
- β -Benzoylhydrocinnamic acid** (JAPP and MILLER), 1885, T., 32.
- Benzoylhydroxycacetylacetic acid** (EINHORN), 1889, A., 168.
- Benzoylhydroxyethylpyridine** (KLEIN), 1890, A., 1437.
- Benzoylhydroxyhydrazobenzene** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- α -Benzoylhydroxynaphthaquinone** (KEGEL), 1888, A., 1308.
- Benzoylhydroxypropylpiperidine** (LAUN), 1884, A., 1055.
- Benzoyl- p -hydroxytolenylamidoxime** (SCHUBART), 1886, A., 798.
- Benzoylhydroxytropeine** and its salts (LADENBURG), 1883, A., 671.
- Benzoylindole** (RUHEMANN and BLACKMAN), 1889, T., 617.
- Benzoylindolecarboxylic acid** (RUHEMANN and BLACKMAN), 1889, T., 617.
- Benzoyl- β -iodophenol** (SCHALL), 1883, A., 1109.
- Benzoylisatin and benzoylisatinic acid** (SCHOTTEN), 1891, A., 723.
- Benzoyl- α -limonene nitrosochloride** (WALLACH), 1892, A., 1348.
- Benzoylmesitylene** (*trimethylbenzophenone*) (LOUISE), 1883, A., 577.
- Benzoylmesitylenic acids** (LOUISE), 1886, A., 353.
- Benzoyl- p -methoxybenzenylamidoxime** (MILLER), 1889, A., 254.
- Benzoylmethylegonine**. See Cocaine, under Alkaloids.
- Benzoylmethyl- α -cyanide**, imido-. See Phenylimidopropionitrile.
- Benzoyl-2'-methylindole** (FISCHER and WAGNER), 1887, A., 588.
- 3-Benzoyl-2'-methylquinoline** (*benzoylquinoline*) (HINZ), 1888, A., 300.
- Benzoylmethyltaurine** (GABRIEL and HEYMANN), 1891, A., 701.
- Benzoyl-2'-methyltetrahydroquinoline**, oxidation and nitro-derivatives of (WALTER), 1892, A., 882.
- Benzoylmethyltrimethylene** (PERKIN and STENHOUSE), 1892, T., 86.
- Benzoylmethyltrimethylenecarboxylic acid** and its oxime (PERKIN and STENHOUSE), 1892, T., 84.
- α -Benzoylnaphthaquinol** (KEGEL), 1888, A., 1308.
- Benzoylnaphthaquinones**, α - and β - (KEGEL), 1888, A., 1307.
- Benzoyl- β -naphthenylamidoxime** (RICHTER), 1890, A., 62.
- Benzoylnicotenylamidoxime** (MICHAELIS), 1892, A., 207.
- Benzoylnitrophenylpyrazolecarboxylic acid** (MEYER), 1889, A., 516.
- Benzoylnitrosoresorcinol**, ethyl ether of (KRAUS), 1892, A., 45.
- Benzoyloscine** (HESSE), 1892, A., 1498.
- Benzoylosotriazole** (BALTZER and v. PECHMANN), 1891, A., 1118.
- Benzoyloxybutyric trichloride**, tertiary (WILLGERODT and DÜRR), 1889, A., 690.
- Benzoylparaleucaniline** (RENOUF), 1883, A., 981.
- p -Benzoylphenetol** (*ethoxybenzophenone*) (GATTERMANN, EHRLHARDT, and MAISCH), 1890, A., 964.
- Benzoylphenol**. See Hydroxybenzophenone.
- Benzoylphenylacetaldehyde** (CLAISEN and MEYEROWITZ), 1890, A., 359.

- Benzoylphenylamidoacetic acid** (RE-BUFFAT), 1887, A., 1108.
- Benzoylphenylazimethylene** (CURTIUS and THUN), 1891, A., 1357.
reactions of (CURTIUS and LANG), 1892, A., 451.
- Benzoylphenylbenzaldehyde hydrazine** (RUHEMANN and BLACKMAN), 1889, T., 615.
- Benzoylphenyl-*o*-benzoic acid** (ELES), 1890, A., 514.
- Benzoylphenylbenzidinehydrazide** (MICHAELIS and SCHMIDT), 1887, A., 820.
- Benzoylphenyl-carbazine and -thiocarbazine** (FREUND and GOLDSMITH), 1888, A., 1187.
- 2-Benzoyl-1-phenyl-3:4-dimethylpyrazolone** (NEF), 1892, A., 146.
- Benzoylphenylenediphenylmethane** (HANRIOT and SAINT-PIERRE), 1889, A., 882.
- Benzoylphenylhydrazide** (RUHEMANN and BLACKMAN), 1889, T., 612; P., 127.
- Benzoylphenylhydrazide.** See also Benzophenylhydrazide.
- Benzoylphenylhydrazidepyruvic acid** (RUHEMANN and BLACKMAN), 1889, T., 616.
- Benzoylphenylhydrazimethylene** (CURTIUS and THUN), 1891, A., 1356.
- Benzoylphenyldiiodomethane** (*phenyl diiodobenzyl ketone*) (CURTIUS and LANG), 1892, A., 451.
- 2-Benzoyl-1-phenyl-3-methylpyrazolone** and its 4-bromo-derivative (NEF), 1892, A., 146.
- 4-Benzoyl-1-phenyl-3-methylpyrazolone** (NEF), 1892, A., 146.
- p*-Benzoylphenylphenylsemithiocarbazide** (RUHEMANN and BLACKMAN), 1889, T., 615.
- β -Benzoyl- β -phenylpropionic acid** (*de-oxybenzoïnacetic acid*) (MEYER and OELKERS), 1888, A., 704; (KNOEVENAGEL), 1888, A., 706; 1892, A., 1002.
- Benzoyl-1-phenylpyrazole** (BALBIANO), 1890, A., 798.
- Benzoylphenylsemicarbazide** (RUHEMANN and BLACKMAN), 1889, T., 614.
- Benzoylphthalic acid** (*benzophenonedicarboxylic acid*) (ROSPENDOWSKI), 1886, A., 626.
- Benzoylphthalo- ψ -cumidide** (FRÖHLICH), 1884, A., 1319.
- Benzoylphthalo- ψ -cumidic acid** (FRÖHLICH), 1885, A., 154.
- Benzoylphthalo-*p*-toluidide** (FRÖHLICH), 1885, A., 155.
- β -Benzoylpicolinic acid** (BERNTHSEN and METTEGANG), 1887, A., 737.
- Benzoylpipecoline** (BUNZEL), 1889, A., 904.
- Benzoylpiperidine**, amido- and *m*-nitro-, and their derivatives (SCHOTTEN), 1888, A., 1105.
- Benzoylpropaldehyde** (CLAISEN and MEYEROWITZ), 1890, A., 358.
- β -Benzoylpropion-*o*-carboxylic acid** and its salts (ROSER), 1885, A., 267.
- α -Benzoylpropionitrile** (*α -benzoyl ethylic cyanide*) and its imido-derivative (v. MEYER), 1889, A., 577.
- Benzoylpropionic acid** (FITTIG and LEONI), 1890, A., 895.
oximes of (DOLLFUS), 1892, A., 1202.
phenylhydrazine (KUES and PAAL), 1886, A., 355.
- Benzoyl- β -propionic acids**, alkylated (CLAUS), 1887, A., 827.
- Benzoylisopropyl-*o*-carboxylic acid.** See Phenyl isopropyl ketone *o*-carboxylic acid.
- Benzoylpropylecgonine** (NOVY), 1887, A., 1126.
- Benzoylpropyl-*d*-ecgonine hydrochloride** (EINHORN and MARQUARDT), 1890, A., 913.
- Benzoylpropylic alcohol** (*phenyl hydroxypropyl ketone*), and its oxime (MARSHALL and PERKIN), 1891, T., 886.
- Benzoyl- α - and - β -pyridyllactic acids** (EINHORN), 1890, A., 521; 1892, A., 76.
- ψ -Benzoylpyrrolone** (CIAMICIAN and DENNSTEDT), 1885, A., 379.
- Benzoylpyruvic acid** (BEYER and CLAISEN), 1887, A., 944.
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oxime of (SALVATORI), 1892, A., 304.
- Benzoylquinol** (KLINGER and STANDKE), 1891, A., 900.
- Benzoylresorcinol**, nitro- (ERRERA), 1886, A., 51.
- Benzoylretene** (LOUISE and PERRIER), 1892, A., 1205.
- Benzoylsalicylamidoxime** (SPILKER), 1890, A., 143.
- Benzoylscooletin** (TAKAHASHI), 1889, A., 256.
- β -Benzoylisosuccinic acid** (BISCHOFF), 1883, A., 912; 1886, A., 355; (KUES and PAAL), 1886, A., 354.
- Benzoylsuccinimidoxime** (GARNY), 1892, A., 137.
- Benzoylsulphobenzamidinic anhydride** (EITNER), 1892, A., 713.

- Benzoyltannin** (BÖTTINGER), 1890, A., 163.
- Benzoyltetrahydroquinoline** (HOFFMANN and KOENIGS), 1883, A., 1144.
- Benzoyltetramethylene** (PERKIN), 1883, A., 1084.
- Benzoyltetramethylenecarboxylic acid** (PERKIN), 1883, A., 1084.
- Benzoyldithionaphthol**. See Dibenzoyle-disulphydhydronaphthalene.
- Benzoyl-*p*-toluic acid** (ELBS and LARSEN), 1885, A., 261.
- 1'-Benzoyltolylamido-1:4-naphthaquinone** (KEGEL), 1888, A., 1308.
- Benzoyl-*o*-tolylthiocarbamide** (DIXON), 1889, T., 622.
- Benzoyltrihydroxybenzamidopyrrolone** (RÜGHEIMER), 1889, A., 1210.
- Benzoyltrimellitic acid** (ELBS), 1887, A., 942.
- Benzoyltrimethylene** (PERKIN), 1885, T., 840.
reduction of (MARSHALL and PERKIN), 1891, T., 885.
- oxime of** (PERKIN), 1884, A., 1155; 1885, T., 845; (PERKIN and STENHOUSE), 1892, T., 86.
- Benzoyltrimethylenecarboxylic acid** and its salts (PERKIN), 1884, A., 64; 1885, T., 836.
action of hydrobromic acid on (PERKIN), 1885, T., 842.
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oxime of (MARSHALL and PERKIN), 1891, T., 883.
- Benzoyltriphenylpropiomethylamide**, and its distillation (KLINGEMANN and LAYCOCK), 1891, T., 147.
- Benzoyltropeine** (LADENBURG), 1883, A., 671.
- Benzoyl- ψ -tropeine** (LIEBERMANN), 1891, A., 1265.
- Benzoylvaleric acid** (*β -benzoyl- α -ethylpropionic acid*) (DITTRICH and PAAL), 1889, A., 257.
- Benzoylxylenylamidoxime** (OPPENHEIMER), 1890, A., 49.
- Benzyl, bis-*o*-chloronitrosyl-** (BEHREND and NISSEN), 1892, A., 1200.
nitro-, chlorides of *o*- and *m*- (ABELLI), 1883, A., 1092.
*bis*nitrosyl- (*dinitrosotoluene*) (BEHREND and KÖNIG), 1890, A., 1122.
bis-p-nitronitrosyl- (BEHREND and KÖNIG), 1891, A., 1035.
- Benzyl acetoxime** and its hydrochloride (JANNY), 1883, A., 581.
- Benzyl isocamyl and isobutyl ethers**, decomposition of, by heat and by nitric acid (ERRERA), 1887, A., 1103.
- Benzyl ethyl ether** (MÜLLER), 1886, A., 875.
p-chloro- and *p*-bromo-, and their decomposition by heat and by nitric acid (ERRERA), 1887, A., 1103.
o-chloro-*p*-nitro- (WITT), 1892, A., 445.
- Benzyl mercaptan, *p*-bromo-** (JACKSON and HARTSHORN), 1884, A., 665.
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- Benzyl methyl ether**, action of phosphoric chloride on (COLSON), 1885, A., 252.
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- Benzyl methyl ketone, bromodinitro-** (JACKSON and MOORE), 1889, A., 781; 1890, A., 773.
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- Benzyl selenomercaptan, *o*-cyano-** (DRORY), 1891, A., 1460.
- Benzyl tolyl ketone**. See Tolyl benzyl ketone.
- Benzyl *o*-, *m*-, and *p*-xylyl ketones** (WEGE), 1892, A., 338.
- Benzylacetamide, *o*-amido-** (GABRIEL and JANSEN), 1890, A., 1442.
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- Benzylacetanilide** (MELDOLA and SALMON), 1888, T., 780.
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- Benzylacetoacetic acid** (CERESOLE), 1883, A., 41.
- Benzylacetomethylamide, *o*-nitro-, and *o*-amido-** (GABRIEL and JANSEN), 1892, A., 218.
- Benzylacetone, *m*-amido-** (V. MILLER and ROHDE), 1890, A., 1138.
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- Benzylacetone-*o*-carboxylic acid** (BÜLOW), 1887, A., 144.
- Benzylaceto-*p*-nitranilide** (MELDOLA and SALMON), 1888, T., 779.
- Benzylacetophenone** (*phenyl phenylethyl ketone*) (SCHNEIDEWIND), 1888, A., 705; (PERKIN and STENHOUSE), 1891, T., 1007.
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- Benzylaceto-*p*-toluidide**, *o*-amido- (SÖDERBAUM and WIDMAN), 1890, A., 1258.
- Benzylacetoxyposphinous acid** (*acetylbenzylphosphinous acid*) (VILLE), 1890, A., 619.
- Benzylacetylglutaric acid** (FITTIG and CHRIST), 1892, A., 963.
- Benzylallylthiocarbamide** (DIXON), 1891, T., 559.
- "Benzylalsorbitol"** (MEUNIER), 1890, A., 730.
- Benzylamine**, and its derivatives (CLAUS and ELBS), 1883, A., 982; (CLAUS and KOHLSTOCK), 1885, A., 1132.
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- Benzylamidoacetic acid**, benzylamide of (HINSBERG), 1892, A., 1458.
- o*-Benzylamidoacetophenone**, and its nitroso-derivative (v. BAEYER), 1884, A., 1021.
- Benzylamidobenzeneazo- α - and - β -naphthols** (MELDOLA and COSTE), 1889, T., 596.
- Benzylamidobenzoic acid** (CLAUS and GLYCKHERR), 1883, A., 1009.
- Benzylamidodimethylaniline** (KÖHLER), 1888, A., 50.
- Benzyl-*p*-amidodiphenylamine** (HENCKE), 1890, A., 609.
- Benzylamidosulphonic acid** (SCHMIDT), 1892, A., 476.
- Benzylamine** (CURTIUS and LEDERER), 1887, A., 40.
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- Benzylamine**, *o*-amido- (GABRIEL), 1887, A., 1037.
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- Benzylamine-*p*-carboxylic acid** (GÜNTHER), 1890, A., 977.
- Benzylammonium succinates** and their derivatives (WERNER), 1889, T., 627; P., 127.
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- Benzylangelicalactone** (ERDMANN), 1890, A., 376.
- Benzylaniline**, molecular refraction and dispersion of (GLADSTONE), 1891, T., 296.
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- Benzylisoanisaldoxime** (GOLDSCHMIDT), 1890, A., 1262.
- γ -Benzylanthracene** (BACH), 1890, A., 1145.
- Benzylanthracenesulphonic acid**, barium salt of (BACH), 1890, A., 1145.
- Benzylanthranol** (BACH), 1890, A., 1425.
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- Benzylbenzamide**, *o*-amido-, and *o*-nitro- (GABRIEL and JANSEN), 1890, A., 1442.
- Benzylbenzenylamidine** (KEHRMANN and MESSINGER), 1892, A., 1110.
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- Benzylbenziloximes** (AUWERS and MEYER), 1889, A., 609; (AUWERS and DITTRICH), 1889, A., 1192.
- m*-**Benzylbenzoic acid**, and its salts (SENF), 1884, A., 428.
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- Benzylisobutylamine** (ZAUNSCHIRM), 1888, A., 1077.
- Benzylisobutylcarbamide** (KÜHN and RIESENFELD), 1892, A., 312.
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- Benzylcamphoroxime** (HALLER), 1892, A., 73.
- γ -**Benzyl- δ -caprolactone**. See δ -Hydroxy- γ -benzylhexoic acid, lactone of.
- Benzylcarbamide**, *o*-nitro- (GABRIEL and JANSEN), 1892, A., 218.
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- Benzylcarbamine** (SCHNEIDEWIND), 1888, A., 705.
- Benzylchlorethylamine hydrochloride** (GOLDSCHMIEDT and JAHODA), 1891, A., 1351.
- Benzyl-*o*-chloroisobenzaldoxime**, *o*-chloro- (BEHREND and NISSEN), 1892, A., 1199.
- Benzyl-*p*-chlorodeoxybenzoin** (PETRENKO-KRITSCHENKO), 1892, A., 1227.
- Benzylchrysianiline** (TRILLAT and DE RACZKOWSKI), 1892, A., 1095.
- Benzylcinchonidine** (CLAUS), 1892, A., 1251.
- Benzylcinnamic acid** (MICHAEL and PALMER), 1885, A., 987; (OGLIALORO-TODARO), 1891, A., 76.
- Benzyl-*o*- and -*p*-cresols**, nitro-derivatives of (STAEDEL), 1883, A., 863.
- Benzyl-compounds**, *p*-bromo- (JACKSON and HARTSHORN), 1884, A., 665.
- Benzylcyanocamphor** and its *o*-nitro-derivative (HALLER), 1891, A., 1499.
- Benzyldeoxybenzoin** (MEYER and OELKERS), 1888, A., 703.
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- Benzylidazoamidobenzene** (FRISWELL and GREEN), 1886, T., 749.
- Benzylidihydro-anthracene and -anthranol** (BACH), 1890, A., 1425.
- Benzylidihydropyrroline** (ANDERLINI), 1890, A., 65, 1430.
- Benzylidihydroxy-cinchotenidine and -cinchotenine** (CLAUS), 1892, A., 1250, 1251.
- Benzyl dimethylamine** (JACKSON and WING), 1887, A., 721.
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- o*-**Benzyl-*m*-dimethylbenzoic acid** (GRESLY), 1886, A., 1029.
- Benzyl dimethylcarbamide** (HINRICHSSEN), 1889, A., 391.
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- Benzyl dimethylthiocarbamide** (HINRICHSSEN), 1889, A., 391.
- Benzyl diphenyl-**. See Diphenylbenzyl.
- Benzyl isopropylamine** (UEBEL), 1888, A., 1079.
- Benzyl durene**, preparation of (BEAUREPAIRE), 1889, A., 966.
- Benzylisodurene** (ESSNER and GOSSIN), 1885, A., 253.
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- "Benzylenes, α - and β ," and a nitro-derivative of (GLADSTONE and TRIBE), 1885, T., 450.
- Benzylethanetricarboxylic acid** (*phenylpropanetricarboxylic acid*) (FITTIG and RÜDERS), 1890, A., 896.
- Benzylethylacetic acid**. See Phenylvaleric acid.
- Benzylethylamarine** (CLAUS and KOHLSTOCK), 1885, A., 1133.
- Benzylethylamidobenzenephosphinic chloride** (MICHAELIS and SCHENCK), 1891, A., 437.
- Benzylethyl-*m*-amidophenol**, *o*-amido- (LELLMANN and BOYE), 1890, A., 1116.
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- Benzylethylamine** (ZAUNSCHIRM), 1888, A., 1077; (KRAFT), 1891, A., 51.

- Benzylethylaniline** (FRIEDLÄNDER), 1889, A., 606.
- Benzylethylanilinesulphonic acid**, sodium salt of (MICHAELIS and GODCHAUX), 1890, A., 611.
- Benzylethylglutaric acid** (GUTHZEIT and DRESSEL), 1891, A., 179.
- s-Benzylethylsuccinic acid** (BISCHOFF and WALDEN), 1889, A., 959.
- Benzylethylthiocarbamic acid** (ZAUNSCHIRM), 1888, A., 1077.
- Benzylethylthiocarbamide** (DIXON), 1889, T., 300.
- Benzylethyl-p-toluidine** (RABAUT), 1892, A., 313.
- Benzylfenchylamine** (WALLACH and GRIEPENKERL), 1892, A., 1239.
- Benzylformamide**, *o*-nitro- (GABRIEL and JANSEN), 1890, A., 1443.
- Benzylformanilide** (PICTET and CRÉPIEUX), 1888, A., 689.
- o*-nitro- (PAAL and BUSCH), 1890, A., 72.
- Benzylformimide hydrochloride** (PINNER), 1883, A., 1089.
- Benzylformo-*o*- and -*p*-toluidides**, *o*-nitro- (PAAL and BUSCH), 1890, A., 73.
- Benzylformylcamphor** (CLAISEN), 1891, A., 574.
- Benzylfumaramic acid** (GIUSTINIANI), 1892, A., 821.
- Benzylfumarimide** (GIUSTINIANI), 1892, A., 821.
- Benzylfurfuraldoxime** (WERNER), 1890, A., 1267; (GOLDSCHMIDT and ZANOLI), 1892, A., 1434.
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- Benzylglyoxaline** (WALLACH), 1883, A., 911.
- Benzylhemipinamic acid** (GOLDSCHMIEDT), 1888, A., 1117.
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- α -Benzylhomophthalimide**. See *o*-Carboxyphenylbenzylacetamide.
- α -Benzylhomopiperidinic acid** (ASCHAN), 1891, A., 467.
- Benzylhydratropic acid**. See Diphenylbutyric acid.
- Benzylhydroxyanthranol** (LEVI), 1885, A., 1240; (LINEBARGER), 1892, A., 346.
- Benzylhydroxydiphenylmaleide** (COHN), 1892, A., 483.
- Benzylhydroxyhexoic acid**, salts of (FITTIG and CHRIST), 1892, A., 963.
- Benzylhydroxylamine**, formula of (MEYER), 1883, A., 569.
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- α -Benzylhydroxylamine** (BECKMANN), 1889, A., 608.
- β -Benzylhydroxylamine**, and its derivatives (BECKMANN), 1889, A., 608; (BEHREND and LEUCHS), 1889, A., 704; (BEHREND and KÖNIG), 1891, A., 1033.
- mono*- and *di-o*-chloro- (BEHREND and NISSEN), 1892, A., 1199, 1200.
- m*-nitro- (BEHREND), 1892, A., 51.
- p*-nitronitroso-, and nitroso- (BEHREND and KÖNIG), 1891, A., 1034, 1035.
- Benzylhydroxylamines**, oxidation of (KOTHE), 1892, A., 316.
- Benzyllic acetate**, action of chlorine and bromine on, and its reactions (SEELIG), 1889, A., 598.
- acetoacetate, action of sulphuric acid on (v. PECHMANN), 1883, A., 808.
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- o*-amido-, and its derivatives (SÖDERBAUM and WIDMAN), 1889, A., 972; 1890, A., 178; (SÖDERBAUM), 1890, A., 1254.
- p*-amido-, and its derivatives (O. and G. FISCHER), 1891, A., 695.
- p*-bromo- and *p*-chloro-derivatives (ERRERA), 1889, A., 247.
- o*-chloro-*p*-amido-, and *o*-chloro-*p*-nitro- (WITT), 1892, A., 445.
- p*-nitro- (HAFNER), 1890, A., 486.
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- p*-bromo-, formation of, from *p*-bromotoluene (SCHRAMM), 1885, A., 379.
- o*-chloro-*p*-nitro- (TIEMANN), 1891, A., 704.
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- Benzylidene-2'-methylquinoline** and its salts (JACOBSEN and REIMER), 1884, A., 336; (v. MILLER), 1891, A., 1096.
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- Benzylidene-4'-methylquinoline**, *m*-amido- (HEYMANN and KOENIGS), 1888, A., 1114.
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- Benzylidene-4'-methylquinoline-4-sulphonic acid** (BUSCH and KOENIGS), 1890, A., 1435.
- Benzylidene-*p*-nitraniline** (v. MILLER and PLÖCHL), 1892, A., 1194.
- Benzylidene-*m*-nitrobenzenylamid-oxime**, *m*-nitramido- (STIEGLITZ), 1890, A., 256.
- Benzylidenephthalimidine** (GABRIEL), 1885, A., 1229.
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- ω*-cyano- (GABRIEL), 1885, A., 902.
- iso***Benzylidenephthalide** (GABRIEL), 1885, A., 1230; 1888, A., 144.
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- α*-**Benzylidenepropionic acid**. See *α*-Methylcinnamic acid.
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- Benzylidenethiohydantoic acid** (ANDREASCH), 1888, A., 48.
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- 4-Benzylidene-2:4:6-trimethylpyridine-3:5-dicarboxylic acid**. See **4-Styryl-2:6-dimethylpyridine-3:5-dicarboxylic acid**.
- Benzylidene-*p*-xylydine**, and its *m*-nitro-derivative (PFLUG), 1890, A., 606.
- Benzylidenic chloride**, condensation of, with benzene (LINEBARGER), 1892, A., 719.
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- o*-Benzyl-*m*-methylbenzoic acid** (GRESLY), 1886, A., 1028.
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- di***Bromacetylnaphthastyril** (EKSTRAND), 1886, A., 715.
- tri***Bromacetylpyrroline** (CIAMICIAN and SILBER), 1885, A., 1078.
- β -**Bromacrylic acid** (STOLZ), 1886, A., 531.
- di***Bromacrylic acid** (HILL), 1886, A., 687.
- tri***Bromacrylic acid**, crystalline form of (MELVILLE), 1883, A., 310.
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- di***Bromadipic acid** (RUHEMANN and BLACKMAN), 1890, T., 371; P., 38.
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- Bromallylbenzene** (KÖRNER), 1888, A., 363.
- Bromaloin** (GROENEWOLD), 1890, A., 639.
- 2:4-Bromamido-*a*-acetophthalide** (MELDOLA), 1885, T., 500.
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- p*-**Brom-*o*-amidobenzoic acid** (CLAUS and SCHEULEN), 1891, A., 565.
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- m*-**Brom-*o*-amidoisocumic acid** (FILETI and CROSA), 1891, A., 1056.
- 2:5-*di*Brom-3:6-diamidocymenes** (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1200, 1201.
- di***Brom-*di*amidodiphenyl** [m.p. 108°] (SCHULTZ), 1884, A., 903.
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- Brom-*m*-amidoethoxybenzenes**, *mono*-, *di*- and *tri*- (LINDNER), 1885, A., 775.
- 2:5-Bromamido-3-ethoxy-1-methyl-4-propylbenzene** (MAZZARA and VIGHI), 1890, A., 883.
- 2:3-Bromamido-1:4-naphthaquinone** and its imide (ZINCKE and GERLAND), 1887, A., 838.
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- Bromamidophenetoils** (STAEDEL), 1883, A., 662.
- Bromamidophenols**, and their derivatives (HÖLZ), 1885, A., 1211.

- di*Brom-*p*-amidophenol (MÖHLAU), 1884, A., 594; (LELLMANN and GROTHMANN), 1885, A., 266.
- tri*Bromamidophenol (DACCOMO), 1885, A., 889.
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- o*-Brom-*p*-amidothymol (MAZZARA and DISCALZO), 1886, A., 1019; (MAZZARA), 1890, A., 602.
- 2:5-Bromamidothymol ethyl ether (MAZZARA and VIGHI), 1890, A., 883.
- Bromisodiamido-*o*-toluene (HÜBNER and SCHÜPPHAUS), 1884, A., 1143.
- o*-Brom-*m*-amido-*p*-toluic acid (FILETI and CROSA), 1889, A., 495.
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- β -Bromanisyl- γ -butyrolactone (FITTIG and POLITIS), 1890, A., 771.
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- tri*Bromisapiole (GINSBERG), 1888, A., 1206.
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- β*-Bromethylcinnamylamide (ELFELDT), 1892, A., 215.
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- s-di*Bromethylene (*acetylenedibromide*), molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
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- Bromocoumarone (KRAEMER and SPILKER), 1890, A., 496.
- Bromo-*p*-cresols, *mono*- and *di*- (SCHALL and DRALLE), 1885, A., 146.

- Bromocrotonic acids** (MICHAEL and PENDLETON), 1888, A., 1176; (FITTIG and CLUTTERBUCK), 1892, A., 961.
- Bromo-*n*- and -*iso*-crotonic acids, α - and $\alpha\beta$ -** (WISLIGENUS, TEISLER and LANGBEIN), 1889, A., 236.
- triBromooctoacetylquercetin** (LIEBERMANN), 1884, A., 1365.
- Bromooctylbenzene** (*bromophenyloctane*) (AHRENS), 1887, A., 133.
- γ -Bromisooctioic acid** (FITTIG and SCHNEEGANS), 1890, A., 591.
- Bromooctylthiophen** (v. SCHWEINITZ), 1886, A., 535.
- p*- $\alpha\beta$ -triBromocumene** (SCHRAMM), 1891, A., 898.
- o*-Bromo-*n*-cumene** (CLAUS and WELZEL), 1890, A., 503.
- p*-Bromo-*n*-cumene** (MEYER), 1886, A., 945; (CLAUS and WELZEL), 1890, A., 503.
- Bromo- ψ -cumene** (WALLACH and HEUSLER), 1888, A., 362.
- preparation of (SÜSSENGUTH), 1883, A., 469.
- action of sulphuric acid on (JACOBSEN), 1889, A., 994.
- diBromo- ψ -cumene and its derivatives** (JACOBSEN), 1886, A., 710.
- Bromo- ψ -cumenesulphonic acids** (JACOBSEN), 1886, A., 709; 1889, A., 994.
- o*-Bromo-*p*-cuminic acids** (FILETI), 1891, A., 1023.
- p*-diBromoisocuminic acid** (FILETI and BONISCONTRO), 1892, A., 605.
- Bromo- ψ -cuminic acid and its salts** (SÜSSENGUTH), 1883, A., 469.
- diBromocumylacetic acid**, oxidation products of (FILETI and BASSO), 1891, A., 1057; (FILETI and BONISCONTRO), 1892, A., 604.
- o*-Bromocumylacrylic acid** (WIDMAN), 1891, A., 69.
- Bromocurcumins, tetra- and penta-** (JACKSON and MENKE), 1883, A., 481.
- p*-Bromo-*m*-cyanobenzoic acid** (SCHÖPFF), 1892, A., 337.
- Bromocymenes**. See Cymene.
- Bromocymene- β -sulphonamide** (REMSEN and DAY), 1884, A., 456.
- Bromocymenesulphonic acids**. See Cymenesulphonic acid.
- triBromo-*m*-isocymenol** (JESURUN), 1886, A., 697.
- Bromocymo-quinols and -quinones**. See Cymoquinols.
- Bromodaturic acid** (GÉRARD), 1892, A., 582.
- Bromodecyllic acetate** (GROSJEAN), 1892, A., 691.
- Bromodehydracetic acid** (PERKIN and BERNHART), 1884, A., 1121; (PERKIN), 1887, T., 490; (FEIST), 1892, A., 584.
- Bromodehydrobenzyloxanthranol** (BACH), 1890, A., 1145.
- diBromodehydronicotine** (PINNER), 1892, A., 1497.
- diBromodeoxybenzoin-*p*-carboxylic acid** (BUCHER), 1890, A., 168.
- Bromodeoxypyranilpyroic acid**, Reissert's (ANSCHÜTZ and HENSEL), 1889, A., 258.
- diBromodiacetyl** (*dibromodimethyl diketone*) (FITTIG, DAIMLER and KELLER), 1889, A., 491.
- s*-tetraBromodiacetyl** (KELLER), 1890, A., 359.
- diBromodiacetylbrazilein** (SCHALL and DRALLE), 1890, A., 997.
- triBromodianilidopyruvic acid** (BÖTTINGER), 1891, A., 1054.
- diBromodianthranyl** (LIEBERMANN and GIMBEL), 1887, A., 965; (SACHSE), 1888, A., 1201.
- Bromodianthranyls, di- and hexa-** (SACHSE), 1890, A., 638.
- Bromodiaz-**. See Diazo- under Azo.
- diBromodi- ψ -cumenol**, and methyl ether of (AUWERS), 1886, A., 144.
- Bromo-1:3-diethoxybenzenes, α - and β -** (HERZIG and ZEISEL), 1890, A., 1404.
- diBromo-3:5-diethoxytoluene** (HERZIG and ZEISEL), 1890, A., 1405.
- Bromodiethylæsculetin** (WILL), 1884, A., 69.
- diBromodiethylsulphonemethane** (BAUMANN), 1887, A., 124.
- diBromodifurfurodiacetylene** (GIBSON and KAHNWEILER), 1890, A., 960.
- hexaBromodihydrobenzene** (THEURER), 1888, A., 1085.
- Bromodihydronaphthalene** (AGRESTINI), 1883, A., 346.
- diBromodihydroxydiphenylamine** (MÖHLAU), 1884, A., 594.
- Bromodihydroxyphenylbutyrolactone** (FISCHER and STEWART), 1892, A., 1447.
- diBromo-3:6-dihydroxy-1:4-terephthalic acid** (BÖNIGER), 1888, A., 954.
- Bromodihydroxyxanthone**, derivatives of (GRAEBE and EICHENGRÜN), 1892, A., 1226.
- Bromodihydroxyxylene** [m.p. 126°] (WISCHIN), 1891, A., 74.
- diBromodimethoxybenzoic acid** (v. BOYEN), 1888, A., 680.
- diBromodimethyl diketone** (*dibromodiacetyl*) (FITTIG, DAIMLER and KELLER), 1889, A., 491.

- p* - Bromodimethylamidoazobenzene (GOLDSCHMIDT and BARDACH), 1892, A., 980.
- di*Bromo-1:3-dimethylantracene (ELBS), 1890, A., 511.
- Bromodimethylbenzoic acids and their salts (GÜNTHER), 1884, A., 1347.
- aa-di*Bromo-*aa*-dimethylglutaric anhydride (AUWERS and JACKSON), 1890, A., 1099.
- di*Bromodimethylheptamethylene (KIPPING and PERKIN), 1889, P., 145.
- di*Bromodimethylmalonamide (FREUND), 1884, A., 1124.
- di*Bromo-4:6-dimethylpyridine (*di-bromolutidine*) (PFEIFFER), 1887, A., 845.
- Bromo-1':4'-dimethylquinoline (KNORR), 1887, A., 160.
- Bromo-2:5-dimethylthiophene, *di*- and *tri*- (PAAL), 1885, A., 1206.
- Bromodi- β -naphthyl ketone oxide (CLAUS and RUPPEL), 1890, A., 510.
- Bromodi- β -naphthylamines, *tetra*- and *octo*- (RIS), 1888, A., 57.
- tetra*Bromodinaphthylene oxide (HODGKINSON and LIMPACH), 1891, T., 1100.
- di*Bromodioxydehydronicotine (PINER), 1892, A., 1497.
- Bromodiphenic acid (CARNELLEY and THOMSON), 1885, T., 591; P., 88.
- Bromodiphenylcarbamide (GATTERMANN and CANTZLER), 1892, A., 833.
- p* - Bromodiphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- di*Bromodiphenylcarboxylic acid [m.p. 212°] (HOLM), 1883, A., 922.
- di*Bromodiphenylcarboxylic acids [m.p. 204° and 232°] (CARNELLEY and THOMSON), 1885, T., 589; P., 88.
- Bromodiphenylene ketone (CLAUS and ERLER), 1887, A., 269.
- di*Bromodiphenylene ketone (HODGKINSON and MATTHEWS), 1883, T., 165; (HOLM), 1883, A., 921; (CLAUS and ERLER), 1887, A., 269.
- Bromodiphenylene ketone oxide. See Bromoxanthone.
- tetra*Bromodiphenylfurfuran (PERKIN and SCHLOESSER), 1889, P., 163; 1890, T., 954.
- Bromodiphenylguanidine *dicyanide* (HIRSCH), 1888, A., 947.
- Bromodiphenylmethane, preparation of (HENDERSON), 1891, T., 731.
- di*Bromodipiperonylideneacetone (SALKOWSKI), 1891, A., 1175.
- di*Bromo-*p*-dipropylbenzene (KÖRNER), 1883, A., 322.
- tetra*Bromodipropylcarbinylic acetate (DIÉFF), 1887, A., 353.
- per*Bromodithienyl (NAHNSEN), 1885, A., 51.
- hexa*Bromodithienyltrichlorethane (PETER), 1884, A., 1001.
- di*Bromoditolyl, product of the oxidation of (CARNELLEY and THOMSON), 1885, T., 592; P., 88.
- di*Bromo-*p*-ditolyltetrazine (RUHEMANN), 1889, P., 163; 1890, T., 51.
- Bromodurene (GISSMANN), 1883, A., 334. action of sulphuric acid on (JACOBSEN), 1888, A., 137.
- di*Bromodurene (JACOBSEN), 1888, A., 137.
- s-di*Bromethylene (*acetylenic dibromide*), molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
- tri*Bromofluoran (MEYER and HOFFMEYER), 1892, A., 970.
- Bromofluorene (HODGKINSON and MATTHEWS), 1883, T., 165.
- a-di*Bromofluorene, and fusion of, with potash (HODGKINSON and MATTHEWS), 1883, T., 164.
- a-di*Bromofluorenesulphonic acid (HODGKINSON and MATTHEWS), 1883, T., 172.
- tetra*Bromofluorescein. See Eosin.
- Bromoform (GÜNTHER), 1887, A., 787. preparation of (ANON.), 1885, A., 463. preparation of, from acetone and sodium hypobromite (DENIGÈS), 1892, A., 126. obtained in the manufacture of bromine (DYSON), 1883, T., 36. molecular refraction and dispersion of (GLADSTONE), 1891, T., 295. formation of acetylene from (CAZENEUVE), 1892, A., 421. chloro- (DYSON), 1883, T., 636.
- Bromoformberberine (GAZE), 1890, A., 1012.
- Bromofulminuric acids (EHRENBERG), 1885, A., 1192.
- Bromofumaric acid (v. BANDROWSKI), 1883, A., 313.
- β -Bromofurfuran (CANZONERI and OLIVERI), 1887, A., 658.
- Bromofurfurans, *di*- and *tetra*- (HILL), 1883, A., 912.
- aa-di*Bromofurfuran- β -sulphonic acid (HILL and PALMER), 1889, A., 386.
- Bromofurfurylacrylic and bromofurfurylbromacrylic acids (GIBSON and KAHNWEILER), 1890, A., 960.
- Bromofurfurylbromethylene and bromofurfuryl*di*bromopropionic acid (GIBSON and KAHNWEILER), 1890, A., 960.

- di*Bromoglutaric acid (AUWERS and BERNHARDI), 1891, A., 1191.
- Bromoguanidine (HIRSCH), 1888, A., 947.
- Bromoguanine (FISCHER and REESE), 1884, A., 467.
- tri*Bromohemimellithene (JACOBSEN), 1887, A., 36.
- Bromohemipinimide (TUST), 1892, A., 1210.
- γ -Bromoheptioic acid (FITTIG and SCHMIDT), 1890, A., 589.
- γ -Bromoisoheptioic acid (FITTIG and ZANNER), 1890, A., 590.
- Bromohexadecylene (KRAFFT and REUTER), 1892, A., 1163.
- di*Bromohexahydrophthalic acid (*trans*) (V. BAEYER), 1892, A., 1216.
- di*Bromohexahydroterephthalic acid (V. BAEYER), 1887, A., 370.
- di*Bromohexoic acid, decomposition of (FITTIG and HILLERT), 1892, A., 960.
- p-di*Bromohomocuminic acid (*dibromocumylsuccinic acid*), oxidation products of (FILETI and BASSO), 1891, A., 105; (FILETI and BONISCONTRO), 1892, A., 604.
- di*Bromohydrazinesulphonic acid (LIMPRICHT), 1889, A., 398.
- Bromohydrazobenzene [m.p. 63°] (JANOVSKY and ERB), 1886, A., 1024.
- p*-Bromohydrazobenzene [m.p. 115°] (JANOVSKY and ERB), 1887, A., 479.
- di*Bromohydrazobenzene (JANOVSKY and ERB), 1887, A., 479.
- p*-Bromohydrazobenzene-*o*-carboxylic acid (PAAL), 1892, A., 68.
- Bromo-*p*-hydrazotoluene (JANOVSKY and ERB), 1887, A., 479.
- o*-Bromohydrindone (MIERSCH), 1892, A., 1222.
- Bromohydrindones, *m*- and *p*- (V. MILLER and ROHDE), 1890, A., 1139.
- di*Bromohydrindone (HAUSMANN), 1889, A., 1173.
- tetra*Bromohydrindone (ROSER and HASELHOFF), 1888, A., 1304.
- Bromohydrodicoumarin (DYSON), 1886, P., 250; 1887, T., 67.
- di*Bromohydrolapachol (HOOKER), 1892, T., 643; P., 125.
- Bromohydrumuconic acid (V. BAEYER and RUPE), 1890, A., 876.
- di*Bromo-*p*-hydroxybenzoic acid (BALBIANO), 1883, A., 1125.
- constitution of (ALESSI), 1886, A., 65.
- p*-Bromo-*a*-hydroxy-*n*- and -*iso*-butyric acids (KOLBE), 1883, A., 573; (MELIKOFF), 1885, A., 650.
- di*Bromohydroxycarboxytolylglyoxylic acid (*dibromohydroxymethylbenzoyldicarboxylic acid*) (WILL and LEYMAN), 1886, A., 253.
- Bromohydroxycomenic acid (OST), 1883, A., 792.
- tri*Bromohydroxyconiine (V. HOFMANN), 1885, A., 563.
- Bromohydroxycymene (MAZZARA), 1886, A., 1017.
- tri*Bromohydroxydiketodihydropentene (NEF), 1890, A., 1272.
- penta*Bromohydroxydiketohexene (ZINCKE and KEGEL), 1890, A., 1109.
- 5-Bromo-4-hydroxy-2:6-dimethyl-*m*-diazine (PINNER), 1887, A., 1054.
- Bromo- ω -hydroxyethylpiperonylcarboxylic acid and anhydride (PERKIN), 1890, T., 1025.
- Bromohydroxyhydrumuconic acid, lactone of (RUHEMANN and DUFTON), 1891, T., 753.
- Bromohydroxyindone (ROSER and HASELHOFF), 1888, A., 1304; (MELDOLA and HUGHES), 1890, T., 400; P., 58.
- benzylamide, hydrazone, hydrazone-hydrazone, and β -naphthylamide of (MELDOLA and HUGHES), 1890, T., 403; P., 58.
- Bromohydroxyketoinndonaphthene (ZINCKE and GERLAND), 1888, A., 1199, 1200.
- di*Bromohydroxyketohydrindenecarboxylic acid (ZINCKE and GERLAND), 1888, A., 1199.
- Bromohydroxy- β -methylcoumarilic acid (V. PECHMANN and COHEN), 1884, A., 1332.
- Bromohydroxy- β -methylcoumarone (V. PECHMANN and COHEN), 1884, A., 1332.
- 5-Bromo-4-hydroxy-6-methyl-2-ethyl-*m*-diazine (PINNER), 1887, A., 1054.
- Bromohydroxymethylhydrohydrastinine methiodide (FREUND and DORMEYER), 1891, A., 1520.
- $\beta_1\beta_1\gamma_1$ -*tri*Bromo- α_1 -hydroxy- γ_1 -methyljulolidine (REISSERT), 1892, A., 498.
- β_1 -Bromo- α_1 -hydroxy- γ_1 -methyljuloline (REISSERT), 1892, A., 497.
- Bromo- α_1 -hydroxy- γ_1 -methyljulolines, β_1 -*mono*- and $\beta_1\gamma_1$ -*di*- (REISSERT), 1892, A., 497.
- di*Bromohydroxymethylphthalic anhydride (WILL and LEYMAN), 1886, A., 253.
- Bromohydroxy-*a*-naphthaquinone [m.p. 202°] (MILLER), 1885, A., 667.

- Bromohydroxy- α -naphthaquinone** [m.p. 197°], action of hypochlorous and hypobromous acids on (ZINCKE and GERLAND), 1888, A., 1198.
- Bromohydroxy- α -naphthaquinoneoximide** (ZINCKE and GERLAND), 1887, A., 838.
- di***Bromohydroxynaphthaquinone** (ARMSTRONG and STREATFEILD), 1886, P., 232.
- Bromo- β -hydroxypiperonylethylmethyl ketone** (*bromopiperonyllactyl methyl ketone*) (OELKER), 1891, A., 1476.
- γ -Bromo- α -hydroxy- γ -phenylbutyric acid** (BIEDERMANN), 1892, A., 471.
- di***Bromohydroxyphenylbutyronitrile** (FISCHER and STEWART), 1892, A., 1447.
- Bromohydroxyphenylcrotonic acid** (FISCHER and STEWART), 1892, A., 1447.
- 5-Bromo-4-hydroxy-2-phenyl-6-methyl-*m*-diazine** (PINNER), 1887, A., 1053.
- 2:5-*di*Bromo-4-hydroxyisopropylbenzoic acid** (FILETI and BONISCONTRO), 1892, A., 604.
- di***Bromohydroxypyridine** and its salts (LIEBEN and HAITINGER), 1883, A., 871; (KOENIGS and GEIGY), 1884, A., 1195; (FISCHER and RENOUF), 1884, A., 1370.
- Bromo-1-hydroxyquinoline** [m.p. 119°] (SCHMITT and ENGELMANN), 1888, A., 67.
- 4-Bromo-1-hydroxyquinoline** [m.p. 124°] (CLAUS and HOWITZ), 1892, A., 354.
- 4:3-*di*Bromo-1-hydroxyquinoline** (CLAUS and POSSELT), 1890, A., 522; (CLAUS and HOWITZ), 1892, A., 354.
- 3:4:4'-*tri*Bromo-1-hydroxyquinoline** (SRPEK), 1890, A., 177; (CLAUS and HEERMANN), 1891, A., 83.
- 4-Bromo-3-hydroxyquinoline hydrobromide** (CLAUS and HOWITZ), 1892, A., 353.
- di***Bromo-3-hydroxyquinoline** (CLAUS and POSSELT), 1890, A., 523.
- Bromo-2'-hydroxyquinoline**. See Bromo-carbostyryl.
- Bromo-1:4-hydroxyquinolinesulphonic acid** (CLAUS and POSSELT), 1890, A., 522.
- tri***Bromohydroxyquinone** (BARTH and SCHREDER), 1885, A., 520.
- Bromohydroxytetrahydronaphthoic acid**, lactone of (V. BAeyer, SCHODER and BESENFELDER), 1892, A., 192.
- Bromohydroxytetrahydroquinoline hydrochloride** (SRPEK), 1890, A., 177.
- di***Bromohydroxytrimethyluracil** (HAGEN), 1888, A., 582.
- di***Bromoketoidonaphthene** (ROSER), 1887, A., 729.
- Bromo- α -keto- γ -methyl- β -ethyljuloline** (KAYSER and REISSERT), 1892, A., 883.
- Bromoketones**, formation of, by the action of bromine on the alcohols of the ethyl series (ETARD), 1892, A., 809.
- Bromolapachol** (PATERNO), 1883, A., 211; (HOOKER), 1892, T., 638; P., 125.
- Bromolapachone** (HOOKER), 1892, T., 638; P., 125.
- Bromolauric acid** (AUWERS and BERNHARDI), 1891, A., 1190.
- Bromolevulinic acids**, α -mono- and α -*di*- (WOLFF), 1891, A., 1187.
- β -Bromolevulinic acid** (WOLFF), 1887, A., 464.
- $\beta\beta$ -*di*Bromolevulinic acid** (WOLFF), 1891, A., 417.
- di***Bromolimettin** (TILDEN), 1892, T., 348; P., 33.
- Bromomaleic acid**, action of, aniline on (MICHAEL), 1886, A., 698.
- di***Bromomaleic acid** (CIAMICIAN and SILBER), 1884, A., 1117.
- Bromomaleic bromide** (HILL and SANGER), 1884, A., 1305.
- di***Bromomaleinimide** (CIAMICIAN and SILBER), 1884, A., 1116; 1885, A., 993.
- di***Bromomaleinmethyylimide** (DE VARDA), 1889, A., 57.
- di***Bromomalonamide** (FREUND), 1884, A., 1124.
- di***Bromomalononic acid** (MASSOL), 1892, A., 1140.
- Bromomercuric acid** (NEUMANN), 1889, A., 1050.
- Bromomesitol** (SCHRAMM), 1886, A., 451.
- di***Bromomesitylene** from coal-tar oil (SÜSSENGUTH), 1883, A., 469.
- Bromomesitylenic acid**, preparation of, from bromomesitylene (SÜSSENGUTH), 1883, A., 469.
- di***Bromomesitylenic acid**, and its salts (SÜSSENGUTH), 1883, A., 470.
- Bromomesitylic bromide** (SCHRAMM), 1886, A., 451.
- di***Bromomethane**. See Methylene bromide.
- di***Bromomethanesulphonic acid**, barium salt of (ANDREASCH), 1886, A., 786.
- di***Bromomethoxybenzoic acid** (PERATTONE), 1887, A., 487.
- di***Bromomethoxymethylphthalic acid** (WILL and LEYMANN), 1886, A., 251.
- p*-**Bromomethoxyphenylacetic acid** (SALKOWSKI), 1889, A., 1174.

- p*-Bromomethylaniline (MELDOLA and STREATFEILD), 1889, T., 418, 425, 433; P., 98.
- Bromomethylchloroform (HENRY), 1884, A., 978.
- Bromomethylenephthalide (GABRIEL), 1885, A., 165.
- Bromo-*o*-methylethylbenzene (CLAUS and PIESZCZEK), 1887, A., 240.
- Bromomethylethylloxazalone (HARRIOT), 1891, A., 1108.
- di*Bromo- β -methylglutaric acid (AUWERS and BERNHARDI), 1891, A., 1191.
- tri*Bromomethylglyoxaline (WALLACH), 1883, A., 911.
- Bromomethylhydrodrastinine (FREUND and DORMEYER), 1892, A., 223.
- Bromomethylisatoid (v. BAEYER and OECONOMIDES), 1883, A., 201.
- Bromomethyloxindoles, *mono*- and *di*- (COLMAN), 1888, P., 96; 1889, T., 3, 7.
- p*-Bromomethyl- α -phenotriazine (BISCHLER and BRODSKY), 1890, A., 152.
- di*Bromomethylpyridine (LADENBURG), 1883, A., 672.
- 3-Bromo-1-methylquinoline, and its derivatives (ALT), 1889, A., 1214.
- Bromo-2'- and -4'-methylquinolines (MAGNANINI), 1887, A., 1113; 1890, A., 1322.
- Bromomethylquinolones (DECKER), 1892, A., 879, 880, 881.
- di*Bromomethylsuccinic acid, and its salts (CLAUS), 1883, A., 44.
- Bromomethyltarconic acid (ROSER), 1888, A., 1116.
- ω -Bromo-1:3:4-methyltetrahydropyridylethylene (EICHENGRÜN and EINHORN), 1891, A., 66.
- 3-Bromo-1-methyltetrahydroquinoline (ALT), 1889, A., 1214.
- Bromomethylthiazolecarboxylic acid (WOHMANN), 1891, A., 226.
- tri*Bromomethylthiophen (*tribromothiolen*) (MEYER and KREIS), 1884, A., 1132.
- γ -*tri*Bromomethylthiophen, action of nitric acid on (MUHLERT), 1885, A., 229.
- di*Bromo- β -methylthiophen (GERLACH), 1892, A., 830.
- tri*Bromomethylthiophens, oxidation of (CIAMICIAN and ANGELI), 1892, A., 302.
- Bromomethyluracil (BEHREND), 1886, A., 338.
- Bromomimetites (DITTE), 1883, A., 783.
- Bromomyristic acid (HELL and TWERDOMEDOFF), 1889, A., 955.
- di*Bromomyristicin (SEMMLER), 1890, A., 1150.
- Bromonaphthalenes. See Naphthalene.
- Bromonaphthalenesulphonic acid. See Naphthalenesulphonic acid.
- Bromonaphthanilide (MILLER), 1885, A., 667.
- 3'-Bromo-1:2-naphthaquinol (CLAUS and PHILIPSON), 1891, A., 462.
- Bromonaphthaquinone. See Naphthaquinone.
- di*Bromonaphthastyril (EKSTRAND), 1886, A., 715.
- Bromo- α -naphthoic acid (EKSTRAND), 1886, A., 715.
- 1:3'-*di*Bromo-2-naphthoic acid (CLAUS and PHILIPSON), 1891, A., 462.
- Bromonaphthol. See Naphthol.
- Bromonaphtholactone (EKSTRAND), 1886, A., 716.
- Bromo- β -naphthol-3'-sulphonic acid, derivatives of (ARMSTRONG and ROSSITER), 1889, P., 72.
- 1:3-*di*Bromo-2-naphthonitrile (CLAUS and PHILIPSON), 1891, A., 462.
- Bromonaphthylamine. See Naphthylamine.
- Bromonaphthylene-ethenylamidine (PRAGER), 1885, A., 1239.
- di*Bromo- α -naphthylpropionic acid (BRANDIS), 1889, A., 1200.
- Bromonicotinic acids (CLAUS and COLLISCHONN), 1887, A., 159; (SRPEK), 1890, A., 177; (CLAUS), 1892, A., 876.
- Bromonitro-*p*-acetamidoisobutylbenzene (GELZER), 1889, A., 44.
- Bromonitracetamidophenylacetoneitrile (GABRIEL), 1883, A., 64.
- m*-Bromo-*p*-nitracetanilide (CLAUS and SCHEULEN), 1891, A., 564.
- 3:5:4-*di*Bromonitracetanilide (CLAUS and WEIL), 1892, A., 1205.
- Bromonitro- β -acetanaphthalide, preparation of (PRAGER), 1885, A., 1239.
- Bromonitracetonaphthalides (MELDOLA), 1883, T., 9; 1885, T., 499.
- ω -Bromo-*o*-nitracetophenone (GEVEKOHT), 1884, A., 445.
- ω -Bromo-*p*-nitracetophenone, derivatives of (ENGLER and ZIELKE), 1889, A., 505.
- 5-Bromo-3-nitraceto-*o*-toluidide (NIEMENTOWSKI), 1892, A., 838; (CLAUS and BECK), 1892, A., 1207.
- 5-Bromo-*di*nitraceto-*o*-toluidide (NIEMENTOWSKI), 1892, A., 838.
- 3-Bromo-5-nitraceto-*p*-toluidide (HAND), 1886, A., 1018.

- Bromonitracetylpyrrolines**, *mono-* and *di-* (CIAMICIAN and SILBER), 1887, A., 597; 1889, A., 61.
- Bromodinitrotri amidobenzene** (JACKSON and BANCROFT), 1890, A., 982.
- p*-Bromo-*m*-nitro-*p*-amidobenzophenone** (SCHÖPFF), 1892, A., 336.
- eso*-Bromonitramidoisobutylbenzene** (GELZER), 1889, A., 44.
- Bromo-*o*- and *p*-amidophenetoils**, *mono-* and *di-*, and their salts (STAEDEL), 1883, A., 663.
- Bromonitramidophenylacetic acid** (GABRIEL), 1883, A., 64.
- p*-Bromo-*o*-nitraniline** (NÖLTING and COLLIN), 1884, A., 1013.
- m*-Bromo-*p*-nitraniline** (CLAUS and SCHEULEN), 1891, A., 565.
- 3:5-*di*-Bromo-4-nitraniline** (CLAUS and WEIL), 1892, A., 1205.
- Bromonitranisoil** (STAEDEL), 1883, A., 662.
- 5:2-Bromonitrazobenzene** (WILLGERODT), 1888, A., 949.
- di*-Bromonitrethane**, action of zinc ethyl on (BEWAD), 1889, A., 1128.
- β -Bromo-*m*-nitrethylbenzamide** (ELFELDT), 1892, A., 213.
- Bromonitrisatin** (DORSCH), 1886, A., 360.
- p*-Bromo-*m*-nitrobenzaldehyde** (SCHÖPFF), 1892, A., 336.
- p*-Bromo-*m*-nitrobenz-*amide* and -*anilide*** (GROHMANN), 1891, A., 305.
- Bromonitrobenzene**. See Benzene.
- 1:3:6-Bromonitrobenzenesulphonic acid** (LIMPRICHT), 1885, A., 1234.
- Bromonitrobenzoic acid**. See Benzoic acid.
- Bromonitrobenzonitrile**. See Benzonitrile.
- Bromo-*m*-nitrobenzophenones**, *mono-* and *di-* (SCHÖPFF), 1892, A., 336.
- di*-*p*-Bromodi-*m*-nitrobenzophenone** (SCHÖPFF), 1892, A., 336.
- Bromo-*n*-nitrobenzyl methyl ketone** (JACKSON and MOORE), 1889, A., 781; 1890, A., 773.
- Bromonitro-*p*-*iso*-butyl-acetanilide and -*aniline*** (GELZER), 1889, A., 44.
- Bromonitrocamphor** (CAZENEUVE), 1885, A., 270.
- α -Bromo-*m*-nitrocinnamaldehyde** (NAAR), 1891, A., 563.
- α -Bromo-*o*-nitrocinnamic acid** (NAAR), 1891, A., 563.
- α -Bromo-*m*-nitrocinnamic acid** (STUART), 1886, T., 361; (NAAR), 1891, A., 564.
- 4:6-Bromonitro-*o*-cresol** (CLAUS and JACKSON), 1889, A., 128.
- 3:5:6-Bromodinitro- ψ -cumene** (JACOBSEN), 1889, A., 39.
- 2:5-Bromonitrocymene** (FILETI and CROSA), 1889, A., 493.
- 3-Bromonitrocymene** (MAZZARA), 1886, A., 1016; (FILETI and CROSA), 1889, A., 494.
- 3-Bromodinitrocymene** (MAZZARA), 1886, A., 1016.
- 2-Bromodinitrocymene** (FILETI and CROSA), 1889, A., 493.
- di*-Bromodinitrocymenes** (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1200, 1201.
- Bromonitrodiazo-**. See Diazo-, under Azo.
- di*-Bromo-*mono-* and *tri*-nitrodiphenyl** (LELMANN), 1883, A., 343.
- p*-Bromo-*o*-nitrodiphenylsemithiocarb-*azide*** (BISCHLER and BRODSKY), 1890, A., 152.
- di*-Bromodinitro-*p*-dipropylbenzene** (FILETI), 1891, A., 1022.
- Bromonitrohydroxyuracil** (BEHREND), 1887, A., 920.
- Bromodinitromesitylene** (SÜSSENGUTH), 1883, A., 470.
- Bromonitromethane**, action of zinc ethyl on (BEWAD), 1889, A., 1128.
- Bromodinitromethane** (KACHLER and SPITZER), 1883, A., 961.
- di*-Bromodinitromethane** (LOSANITSCH), 1884, A., 277.
- formation of (LOSANITSCH), 1883, A., 564.
- chlorine-derivatives of (LOSANITSCH), 1884, A., 1107.
- 6:2:4-Bromodinitromethylaniline** (NORTON and ALLEN), 1885, A., 1214.
- 4'-Bromo-4-nitro-1'-methylquinoline** (CLAUS and DECKER), 1889, A., 728.
- Bromonitronaphthalenes**. See Naphthalene.
- 2:4:1-Bromonitronaphthol and its salts** (MELDOLA), 1885, T., 501; P., 71.
- Bromonitro- α -naphthylamine** (MELDOLA), 1885, T., 500; P., 71; (ARMSTRONG and ROSSIER), 1891, P., 187.
- Bromonitronaphthylene-ethenylamid-*ine*** (PRAGER), 1885, A., 1239.
- Bromonitrophenetoils** (STAEDEL), 1883, A., 662.
- di*-Bromonitrophenetoil** (JACKSON and BENTLEY), 1892, A., 1182.
- tri*-Bromodinitrophenetoil** (JACKSON and WARREN), 1891, A., 1026.
- Bromonitrophenols**. See Phenol.
- Bromonitrophenyl benzyl ethers** (ROLL and HOLZ), 1885, A., 1209.

- Bromo-*m*-nitrophenyl ethyl ether** (*bromo-*m*-nitrophenetol*) (LINDNER), 1885, A., 775.
- m*-Bromodinitrophenylacetic acid** (JACKSON and ROBINSON), 1890, A., 378.
- p*-Bromo-*o*-nitrophenylhydrazine** (BISCHLER and BRODSKY), 1890, A., 151.
- 3-Bromo-6-nitrophenylphenylhydrazine** (WILLGERODT), 1888, A., 949.
- tri*Bromonitropropane** (ASKENASY and MEYER), 1892, A., 1064.
- tetra*Bromo-1:3-*di*nitropropane** (KEPLER and MEYER), 1892, A., 1062.
- Bromonitropropylene** (ASKENASY and MEYER), 1892, A., 1064.
- Bromonitroquinolines, 2:2'- and 2:3'** (CLAUS and VIS), 1889, A., 281.
- 3:4-Bromonitroquinoline** (LA COSTE), 1883, A., 90; (CLAUS and ZUSCHLAG), 1890, A., 267.
- 1'-Bromonitroquinolines** (CLAUS and POLLITZ), 1890, A., 521.
- Bromonitrosoquinoline, and its derivatives** (EDINGER and BOSSUNG), 1891, A., 580.
- Bromonitroquinones** (GUARESCHI and DACCOMO), 1885, A., 891.
- Bromodinitroresorcinol** (FÈVRE), 1883, A., 733; (TYPKE), 1883, A., 917.
- di*Bromonitroresorcinol** (FÈVRE), 1883, A., 733.
- Bromonitrosoazobenzene** (WILLGERODT), 1888, A., 949.
- Bromonitrosocarvacrol, constitution of** (MAZZARA), 1890, A., 884.
- di*-*o*-Bromonitrosophenol** (FISCHER and HEPP), 1888, A., 456.
- Bromonitrostrychnine** (BECKURTS), 1890, A., 1529.
- di*Bromonitroterephthalic acids** (FILETI and CROSA), 1891, A., 1056.
- di*Bromodinitrothiophen** (KREIS), 1884, A., 1314.
- Bromonitrothymol** (MAZZARA), 1890, A., 753.
- o*-Bromo-*p*-nitrothymol** (MAZZARA and DISCALZO), 1886, A., 1019; (MAZZARA), 1890, A., 366, 602.
- 3:6-Bromonitrotoluene** (BENTLEY and WARREN), 1890, A., 485.
- di*Bromodinitrotoluene** [2:5:4:6] (CLAUS), 1888, A., 587.
- di*Bromotritnitrotoluene** (PALMER), 1889, A., 390.
- 4:5-Bromonitro-*o*-toluic acid** (CLAUS and BECK), 1892, A., 1207.
- 2:(?)-Bromonitro-*p*-toluic acid** (FILETI and CROSA), 1887, A., 37.
- Bromonitro-*p*-toluic acids, 2:3-, 2:5-, and 2:6-** (CLAUS and HERBAENY), 1892, A., 174.
- 3:6-Bromonitro-*p*-toluic acid** (FILETI and CROSA), 1889, A., 495.
- Bromonitro-*p*-toluic acids, 5:2- and 5:3-** (CLAUS and BEYSEN), 1892, A., 178.
- 2:5-Bromonitro-*p*-toluidine** (CLAUS and HERBAENY), 1892, A., 174.
- 5:3-Bromonitro-*p*-toluidine** (HAND), 1886, A., 1018.
- 2:6-Bromonitro-*p*-toluonitrile** (CLAUS and HERBAENY), 1892, A., 175.
- Bromodinitrotrianilidobenzene** (JACKSON and BANCROFT), 1890, A., 982.
- di*Bromo-*di*- and -*tetra*-nitroxanilides** (MIXTER and WILLCOX), 1888, A., 142.
- 3:4-*di*Bromo-5-nitro-*o*-xylene** (TÖHL), 1886, A., 57.
- 4:6-Bromonitro-*m*-xylene** (AHRENS), 1892, A., 1437.
- 4-Bromo-2:6-*dinitro*-*m*-xylene** (LELLMANN and JUST), 1891, A., 1245.
- Bromonitro-*m*-xylenesulphonic acid and its salts** (LIMPRICHT), 1885, A., 1234.
- Bromopianic acid** (TUST), 1892, A., 1209.
- Bromopianoximic anhydride** (TUST), 1892, A., 1210.
- Bromopianyl-hydrazobenzene, -phenylhydrazide, and -phenylmethylhydrazone** (TUST), 1892, A., 1210.
- α*-Bromopalmitic acid** (HELL and IORDANOFF), 1891, A., 820.
- Bromopentanes, *tri*- and *tetra*-** (HELL and WILDERMANN), 1891, A., 162, 534.
- Bromo-*o*- and -*p*-phenetidines, *mono*- and *di*-, and their salts** (STAEDEL), 1883, A., 663.
- Bromophenols.** See Phenol.
- Bromophenol-*o*-sulphonic acid** (ALLAIN LECANU), 1889, A., 1184.
- p*-Bromo-*α*-phenotriazine** (BISCHLER and BRODSKY), 1890, A., 152.
- Bromophenylacetic acid, action of, on ethylic acetoacetate** (WELTNER), 1884, A., 746; 1885, A., 793.
- an apparent exception to the Le Bel-van't Hoff hypothesis (EASTERFIELD), 1891, T., 71.
- α*-Bromophenyl-*β*-amidocrotonic acid.** See *α*-Brom-*β*-anilidocrotonic acid.
- di*Bromophenylbenzoic acid.** See *di*-Bromodiphenylcarboxylic acid.
- p*-Bromophenyl-*tri*bromothiophen** (KUES and PAAL), 1887, A., 239.
- γγ*-Bromophenylbutyric acid** (JAYNE), 1883, A., 472; (FITTIG and MORRIS), 1890, A., 891.

- Bromophenylbutyrolactone** (FITTIG, OBERMÜLLER and SCHIFFER), 1892, A., 987.
- Bromophenylcarbamide** (BERTRAM), 1892, A., 467.
- Bromophenylcrotonic acid** (KÖRNER), 1888, A., 368.
- Bromophenyleysteine**, action of acetic anhydride on (BAUMANN), 1885, A., 514.
- triBromophenyldithienyl** (RENARD), 1890, A., 1420.
- triBromophenylic benzoate** and its nitro-derivative (DACCOMO), 1885, A., 890.
- diBromophenylic carbonate** (LÖWENBERG), 1886, A., 789.
- Bromophenyllactic acid** (ERLENMEYER), 1883, A., 196.
- Bromophenyllactic acids**, optically active (ERLENMEYER), 1891, A., 1482.
- Bromophenylmethylfurfuran** *tetra*-bromide (PAAL), 1885, A., 249.
- Bromophenylmethylpyrazolone** (MÖLLENHOFF), 1892, A., 1246.
- Bromophenylmethylpyrazolones**, *mono*-, *di*-, and *tri*- (KNORR and DUDEN), 1892, A., 731.
- Bromophenyloctane** (*bromooctylbenzene*) (AHRENS), 1887, A., 133.
- Bromophenylparaconic acid** (FITTIG and LEONI), 1890, A., 894.
- az-p-Bromophenyl-*di*-phenylnaphthothiazine** (MELDOLA and FORSTER), 1891, T., 690.
- 1-p-Bromophenylpiperidine** (LELLMANN and JUST), 1891, A., 1244.
- m-Bromo- β -phenylpropionic acid** (GABRIEL), 1883, A., 195.
- Bromophenylpropylene**. See Bromallylbenzene.
- 4-Bromo-1-phenylpyrazole** (BALBIANO), 1890, A., 797.
- Bromo-1-phenylpyrazoles**, *di*- and *tri*- (BALBIANO), 1890, A., 797.
- 4-Bromo-1-phenylpyrazole-3:5-dicarboxylic acid** (BALBIANO), 1890, A., 1165.
- diBromo-2-phenylpyridinedicarboxylic acid** and its salts (SKRAUP and COENZL), 1883, A., 1014.
- triBromophenylsalicylic acid** (ARBENZ), 1890, A., 893.
- p-Bromophenylsuccinamic acid** (HOOGEWERFF and VAN DORP), 1891, A., 196.
- p-Bromophenylsuccinamide** (HOOGEWERFF and VAN DORP), 1891, A., 196.
- diBromophenylsulphonamic acid**, barium salt of (TRAUBE), 1891, A., 569.
- Bromophenyluramidopropionic acids**, *mono*-, *di*- and *tri*- (HOOGEWERFF and VAN DORP), 1891, A., 198.
- γ -Bromophenylvaleric acid** (FITTIG and STERN), 1892, A., 988.
- Bromophenylisovaleric acid** (FITTIG and LIEBMANN), 1890, A., 776.
- Bromophenylvalerolactone** (FITTIG and STERN), 1892, A., 987.
- triBromophloroglucinol** (BENEDIKT and HAZURA), 1885, A., 554; (HERZIG), 1886, A., 232.
- action of potassium iodide on (BENEDIKT and v. SCHMIDT), 1883, A., 1119.
- acetate (ZINCKE and KEGEL), 1890, A., 1109.
- hexaBromophloroglucinol dibromide** (HAZURA and BENEDIKT), 1886, A., 52.
- Bromophthalic acids and anhydride**. See Phthalic acid and anhydride.
- Bromophthalide** (RACINE), 1886, A., 549.
- diBromophthalide** (GUARESCHI), 1884, A., 842.
- diBromo-o-phthalimide** (LE BLANC), 1889, A., 257.
- Bromopiperonal**, derivatives of (OELKER), 1891, A., 1474.
- Bromopiperonaldoxime** (OELKER), 1891, A., 1475.
- Bromopiperonylacrylic acids**, *tri*- and *tetra*- (PERKIN), 1891, T., 160, 163; P., 27.
- triBromopiperonylethylene** (PERKIN), 1891, T., 161; P., 27.
- Bromopiperonylpropionic acid** (WEINSTEIN), 1885, A., 665.
- diBromopiperonylvaleric acid** (*dibromopiperhydraonic acid*), and derivatives of (WEINSTEIN), 1885, A., 664.
- Bromopiperonylvinyl methyl ketone** (OELKER), 1891, A., 1475.
- Bromoprehnitene**, action of sulphuric acid on (TÖHL), 1892, A., 968.
- β -Bromopropaldehyde** (LEDERER), 1891, A., 37.
- diBromopropaldehyde** (ETARD), 1892, A., 809.
- triBromopropaldehyde** (NIEMIŁOWICZ), 1890, A., 861.
- 1:2:3-triBromopropane**. See Tribromohydrin.
- tetraBromopropane** (*isoallylene tetrabromide*) (GUSTAVSON and DEMJANOFF), 1889, A., 30.
- Bromopropionic acid**, action of aromatic amines on (MABERY and KRAUSE), 1890, A., 371.
- Bromopropionic acids**. See Propionic acid.
- Bromopropylamines**. See Propylamine.
- γ -Bromopropylaminenitrobenzamide** (ELFELDT), 1892, A., 214.

- di*Bromopropylisomylamine and its hydrobromide (PAAL), 1889, A., 118.
- Bromopropylbenzamides**, β - and γ - (HIRSCH), 1890, A., 860; (GABRIEL and ELFELDT), 1892, A., 212.
- di*Bromopropyl-*n*- and -*iso*-butylamines (PAAL), 1889, A., 117.
- di*Bromopropylcarbamide and its derivatives (ANDREASCH), 1884, A., 732; (PAAL and HEUPEL), 1892, A., 30; (PAAL), 1892, A., 578.
- Bromopropylcinnamoylamides**, β - and γ - (ELFELDT), 1892, A., 215.
- di*Bromopropylene (LESPICHAU), 1892, A., 420.
- α -Bromo-*n*- and -*iso*-propylenes** (WISLICENUS, TEISLER and LANGBEIN), 1889, A., 236.
- Bromopropylenecarbamide** and its derivatives (ANDREASCH), 1884, A., 733; (PAAL), 1892, A., 578.
- di*Bromopropylic acetates, α - and $\alpha\beta$ - (ASCHAN), 1890, A., 1084.
- β -Bromopropyl-*m*-nitrobenzamide** (ELFELDT), 1892, A., 213.
- β -Bromopropylphthalimide** (SEITZ), 1891, A., 1472.
- γ -Bromopropylphthalimide** (GABRIEL and WEINER), 1888, A., 1292.
- Bromopropylthiocarbamide** (LAUER), 1890, A., 1090.
- Bromopropylthiophen** (RUFF), 1887, A., 804.
- p*-*di*Bromopropyltoluic acid, oxidation products of (FILETI and BONISCONTRO), 1892, A., 604.
- tri*Bromopropyl-*o*-xylene (UHLHORN), 1890, A., 1249.
- 2-Bromopyridine** (v. HOFMANN), 1883, A., 813; (CIAMICIAN and SILBER), 1885, A., 811.
- di*Bromopyridine (KOENIGS and GEIGY), 1884, A., 1195; (BLAU), 1889, A., 1212.
- Bromopyridine-2:3-dicarboxylic acid** (CLAUS and COLLISCHONN), 1887, A., 159.
- Bromopyridine-3:4-dicarboxylic acid** (EDINGER and BOSSUNG), 1891, A., 580.
- 3:5-*di*Bromopyridine-2:4:6-tricarboxylic acid** (PFEIFFER), 1887, A., 844.
- tetra*Bromopyrocoll (CIAMICIAN and SILBER), 1884, A., 292.
- Bromopyrocresole oxides** (SCHWARZ), 1883, A., 207.
- tri*Bromopyrogallol (WEBSTER), 1884, T., 205, 207.
- Bromopyromucic acids**, *mono*- and *di*- (HILL and SANGER), 1884, A., 1305; (CANZONERI and OLIVERI), 1885, A., 244, 1125; (HILL), 1885, A., 1125.
- Bromopyrottritic acid** (DIETRICH and PAAL), 1887, A., 658.
- di*Bromopyrrolinophthalide (ANDERLINI), 1889, A., 58.
- tri*Bromopyrryl-1-methylglyoxylic acid (DE VARDA), 1890, A., 390.
- di*Bromopyruvic acid, action of hydroxylamine on (SÖDERBAUM), 1892, A., 815.
compounds of, with hydrazines (NASTVOGEL), 1889, A., 237.
- di*Bromo-pyvruramide and -pyvureide (FISCHER), 1887, A., 918.
- tri*Bromopyvurine (FISCHER), 1887, A., 918.
- Bromoquinol**, dimethyl ether of (NÖLTING and WERNER), 1891, A., 209.
- m*-*di*Bromoquinol (LING), 1892, T., 562; P., 105.
- di*Bromoquinoldicarboxylic acid (BÖNIGER), 1888, A., 954.
- di*Bromoquinoldisulphonic acid (GRAEBE and WELTNER), 1891, A., 1029.
- 1-Bromoquinoline-4-carboxylic acid** (LELLMANN and ALT), 1887, A., 502.
- Bromoquinoline**. See Quinoline.
- Bromoquinolinesulphonic acid**. See Quinolinesulphonic acid.
- Bromoquinolinesulphonic bromide** (CLAUS and POSSELT), 1890, A., 522.
- Bromoquinolinic acid** (SRPEK), 1890, A., 177.
- m*-*di*Bromoquinone (HEINICHEN), 1890, A., 165; (LING), 1892, T., 561; P., 105.
- tetra*Bromoquinone (*bromanil*) (LING), 1887, T., 148; (GRAEBE and WELTNER), 1891, A., 1028.
- tetra*Bromo-*o*-quinone (ZINCKE), 1887, A., 808.
- di*Bromoquinone-chlor- and -phenol-imides (MÖHLAU), 1884, A., 594.
- di*Bromorcinol, diethyl ether of (HERZIG and ZEISEL), 1890, A., 1405.
- Brom- α -oreinoldichroin** (BRUNNER and CHUIT), 1888, A., 1183.
- Bromoresorcinols**, *mono*- and *di*- (ZEHENTER), 1887, A., 924.
- Bromorosindone** (FISCHER and HEPP), 1891, A., 1045.
- di*Bromosalicylamide (SPILKER), 1890, A., 141.
- Bromosalicylic acids**, substituted (PERATONER), 1887, A., 486.
- di*Bromosalicylic acid, constitution of (PERATONER), 1887, A., 487.
- di*Bromosalicylthiamide (SPILKER), 1890, A., 142.
- Bromosarcosinemesouric acid** (MYLIUS), 1884, A., 1128.

- di*Bromosebacic acid, and its derivatives (CLAUS and STEINKAULER), 1888, A., 133; (AUWERS and BERNHARDI), 1891, A., 1191.
- Bromoshikimolactone** (EIJKMAN), 1891, A., 920.
- Bromostannic acid** (PREIS and RAÝMAN), 1883, A., 425; (SEUBERT and SCHÜRMANN), 1887, A., 554.
- Bromostearic acid** (PIOTROWSKI), 1890, A., 1396.
- α*-**Bromostearic acid** (HELL and SADOMSKY), 1891, A., 1336.
- Bromostyrychnine** (SHENSTONE), 1885, T., 140, 141; P., 5; (BECKURTS), 1885, A., 675, 911; (LOEBISCH and SCHOOP), 1886, A., 268. crystallography of (MIERS), 1885, T., 144; P., 5. action of nitric acid on (SHENSTONE), 1885, T., 141; P., 5. methhydroxide and methiodide (BECKURTS), 1890, A., 1329. physiological action of (BRUNTON), 1885, T., 143; P., 5.
- di***Bromostyrychnine** (SHENSTONE), 1885, T., 141; P., 5; (BECKURTS), 1885, A., 675, 911.
- tri***Bromostyrychnine** (BECKURTS), 1885, A., 675, 911.
- p*-**Bromostyrene dibromide** (SCHRAMM), 1891, A., 898. glycol (SCHRAMM), 1891, A., 898.
- di***Bromostyrene**, action of bromine-vapour on (KINNICUTT and PALMER), 1884, A., 603.
- di***Bromosuccinanil** (ANSCHÜTZ and WIRTZ), 1887, A., 934.
- Bromosuccinic acids**. See Succinic acid.
- Bromosuccinimide** (KUSSEROW), 1889, A., 1064.
- o*-**Bromo-*m*-sulphobenzoic acid** (FISCHER), 1892, A., 333.
- δ*-**Bromo-*β*-sulphopyromucic acid** (HILL and PALMER), 1889, A., 386.
- 2-Bromoterephthalic acid** (SCHULTZ), 1885, A., 1054; (FILETI), 1887, A., 52.
- di***Bromotetracetylbrazelein** (SCHALL and DRALLE), 1890, A., 997.
- Bromotetrahydrodiphenylic dibromide** (BAMBERGER and LODTER), 1888, A., 604.
- tri***Bromotetraketohexamethylene** (LANDOLT), 1892, A., 836.
- tetra***Bromotetraketohexamethylene** (NEF), 1890, A., 1272.
- hepta***Bromotetramethylene** (SABANÉEFF), 1889, A., 1128.
- Bromotetramethylenecarboxylic acid** (PERKIN and SINCLAIR), 1891, P., 191; 1892, T., 41.
- Bromo-*α*-tetraresorcinoldichroin ether** (BRUNNER and CHUIT), 1888, A., 1182.
- Bromotetraphloroglucinols** (HERZIG and ZEISEL), 1890, A., 243.
- Bromotetric acid** (MOSCHELES and CORNELIUS), 1888, A., 1272.
- μ*-**Bromothiazole** (SCHATZMANN), 1891, A., 745.
- Bromothiophen** (SCHLEICHER), 1886, A., 227.
- di***Bromothiophen**, direct preparation of, from coal-tar benzene (MEYER and STADLER), 1885, A., 971.
- tri***Bromothiophen**, and its sulphonie acid and anhydride (ROSENBERG), 1885, A., 1051.
- tetra***Bromothiophen**, oxidation of (CIAMICIAN and ANGELI), 1892, A., 302.
- Bromothiophen-3-carboxylic acid** (GATTERMANN and RÖMER), 1886, A., 537.
- Bromothiophen-2:3-dicarboxylic acid** (GERLACH), 1892, A., 831.
- Bromothiotolen**. See Bromomethylthiophen.
- 2-Bromothymol** (CLAUS and KRAUSE), 1891, A., 899, 900.
- 6-Bromothymol**, derivatives of (MAZZARA), 1890, A., 366.
- o*-**Bromothymol**, ethyl ether of (MAZZARA and VIGHI), 1890, A., 883.
- 6-Bromothymol methyl ether** (MAZZARA), 1890, A., 366.
- Bromothymol-*o*- and *p*-sulphonic acids**, *o*- and *p*- (CLAUS and KRAUSE), 1891, A., 899.
- β*-**Bromothymoquinol** (MAZZARA and DISCALZO), 1886, A., 1020; (SCHNITER), 1887, A., 720.
- 2-Bromothymoquinone** (MAZZARA), 1890, A., 753; (CLAUS and KRAUSE), 1891, A., 899.
- 5-Bromothymoquinones** (SCHNITER), 1887, A., 720; (MAZZARA), 1890, A., 753.
- Bromothymoquinones**, 2- and 5- (KEHRMANN), 1890, A., 367.
- Bromotoluene**. See Toluene.
- Bromotoluenesulphonic acids**. See Toluenesulphonic acids.
- Bromotoluic acid**. See Toluic acid.
- m*-**Bromo-*o*-toluidine** (ALT), 1889, A., 1214.
- p*-**Bromo-*m*-toluidine** (CLAUS), 1892, A., 1201.
- 2:6-*di*Bromo-*p*-toluidine** (CLAUS and HERBABNY), 1892, A., 175.
- m*-**Bromo-*o*-toluidine-*m*-sulphonic acid** (WYNNE), 1892, T., 1037; P., 155.
- Bromo-*o*-toluonitrile** (NOURRISSON), 1887, A., 668.

- 4:6-*di*Bromo-*o*-toluonitrile (CLAUS and BECK), 1892, A., 1208.
- 2:6-*di*Bromo-*p*-toluonitrile (CLAUS and HERBANY), 1892, A., 175.
- 3:5-*di*Bromo-*p*-toluonitrile (CLAUS and SEIBERT), 1892, A., 176.
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- 3-Bromotoluquinone (CLAUS and JACKSON), 1889, A., 128.
- 4-Bromotoluquinone (SCHNITER), 1887, A., 1036.
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- p*-Bromo-*m*-tolyl methyl ketone (SCHÖPFF), 1892, A., 338; (CLAUS), 1892, A., 1200.
- p*-Bromo-*m*-tolyl methyl ketoxime (CLAUS), 1892, A., 1201.
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- di*Bromo-*p*-tolyllic benzoate (SCHALL and DRALLE), 1885, A., 146.
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- di*Bromotriethylgallic acid (SCHIFFER), 1892, A., 715.
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- α -Bromotrimethylglutaric anhydride (AUWERS and MEYER), 1890, A., 480.
- di*Bromo-2:4:6-trimethylpyridine (PFEIFFER), 1887, A., 844.
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- Dextrose** (*grape-sugar, d-glucose*),
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- Glycerose** and its derivatives (FISCHER and TAFEL), 1887, A., 651; 1888, A., 358, 1264.
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- Heptose** and its derivatives (FISCHER), 1890, A., 598.
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- β -Inosite** (*matozo-dambose*) and its derivatives (MAQUENNE), 1890, A., 355; (COMBES; GIRARD), 1890, A., 471.
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- d*-**Mannoctose** and its derivatives (FISCHER), 1890, A., 598; (FISCHER and PASSMORE), 1890, A., 1232.
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- d*-**Mannoheptose** (FISCHER), 1890, A., 598; (FISCHER and PASSMORE), 1890, A., 1230.
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- d*-**Mannose** (*seminose*) and its derivatives (FISCHER and HIRSCHBERGER), 1888, A., 934; 1889, A., 480, 687; 1890, A., 224; (REISS), 1889, A., 687; 1891, A., 356; (STAHEL), 1890, A., 1260; (JACOBI), 1891, A., 665.
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- d*-**Sorbitol** (*sorbite*) (VINCENT and DELACHANAL), 1890, A., 21.
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- l*-**Sorbitol** (FISCHER and STAHEL), 1891, A., 668, 1173.
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- Carbonylsulphamyl, chloro-** (SCHÖNE), 1885, A., 512.
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- m*-**Carboxybenzylphthalamic acid** (REINGLASS), 1891, A., 1345.
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- o*-Carboxyphenylacetic acid (*phenylacetic-o-carboxylic acid*, *homophthalic acid*, *isovitic acid*), benzylimide of (PULVERMACHER), 1887, A., 1111.
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- o*-Carboxyphenylbenzylacetic acid, and its imide (EICHELBAUM), 1888, A., 1301.
- o*-Carboxyphenylbenzylacetoneitrile (EICHELBAUM), 1888, A., 1300.
- o*-Carboxyphenylglyceric acid, δ -lactone of (BAMBERGER and KITSCHULT), 1892, A., 857.
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- α* Carboxypimelic acid (SCHLEICHER), 1892, A., 428.
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*tri***Chloriodophenol** (LAMPERT), 1886, A., 617.

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- di*-**Chlorobarbituric acid**, mode of formation of (BEHREND), 1887, A., 129.
- tetra*-**Chlorobastin** (CROSS and BEVAN), 1883, T., 20.
- Chlorobenzaldehyde**. See Benzaldehyde.
- m*-**Chlorobenzaldehydephenylhydrazine** (EICHENGRÜN and EINHORN), 1891, A., 1098.
- o*-**Chlorobenzaldoxime** (BEHREND and NISSEN), 1892, A., 1199.
- Chlorobenzene**. See Benzene.
- Chlorobenzeneazo-**. See Benzeneazo-.
- p*-*di*-**Chlorobenzene- α -dimethyl-*p*-difurfuran- β -dicarboxylic acid** (IKUTA), 1892, A., 610.
- p*-**Chlorobenzenesulphonic chloride** (KRAFFT and ROOS), 1892, A., 1220.
- Chlorobenzil** (REDZKO), 1890, A., 783.
- p*-**Chlorobenzo-*p*-chloranilide** (DITTRICH), 1891, A., 1237.
- Chlorobenzoic acid**. See Benzoic acid.
- p*-**Chlorobenzoic sulphinide** (DE ROODE), 1891, A., 1227.
- o*-**Chlorobenzo-*p*-nitranilide** (WILKENS and RACK), 1884, A., 602.
- 2:5- and 2:6-*di*-**Chlorobenzonitrile** (CLAUS and STAENHAGEN), 1892, A., 1206.
- penta*-**Chlorobenzonitrile** (MERZ and WEITH), 1884, A., 589.
- p*-**Chlorobenzophenone- α -oxime and - β -oxime benzyl ether** (DEMUTH and DITTRICH), 1891, A., 314.
- p*-**Chlorobenzophenoneoximes** (DEMUTH and DITTRICH), 1891, A., 314; (HANTZSCH), 1891, A., 445.
- intramolecular change of (WEGERHOFF), 1889, A., 1066.
- s*-*p*-*di*-**Chlorobenzophenoneoximes** (DITTRICH), 1891, A., 1237.
- p*-**Chlorobenzotrichloride** (KLEPL), 1884, A., 447.
- m*-**Chlor-*o*-benzoylbenzoic acid** (GRAEBE and REE), 1886, T., 530.
- di*-**Chlor-*o*-benzoylbenzoic acid** (LE ROYER), 1887, A., 832.
- tetra*-**Chlor-*o*-benzoylbenzoic acid** (KIRCHER), 1887, A., 831.
- o*-**Chlorobenzyl-*o*-chloroisobenzaldoxime** (BEHREND and NISSEN), 1892, A., 1199.
- β -*di*-*o*-**Chlorobenzylidihydroxylamine** (BEHREND and NISSEN), 1892, A., 1199.
- p*-**Chlorobenzyl ethyl ether**, and its decomposition by heat and by nitric acid (ERRERA), 1887, A., 1103.
- β -*o*-**Chlorobenzylhydroxylamine** (BEHREND and NISSEN), 1892, A., 1200.
- p*-**Chlorobenzyl alcohol**, derivatives of (ERRERA), 1889, A., 247.
- ether (ERRERA), 1889, A., 248.
- o*-**Chlorobenzylidenemalononic acid** (STUART), 1887, P., 118; 1888, T., 141.
- Chloroisobenzylidenephthalimidine** (GABRIEL), 1887, A., 62.
- Chlorobenzylidenethiobiuret** (ABEL), 1891, A., 703.
- tri*-**Chlorobenzylidenetrichlorides** (*penta*-chlorotoluenes), α - and β - (SEELIG), 1885, A., 770.
- p*-**Chlorobenzoyloxybenzophenone** (DEMUTH and DITTRICH), 1891, A., 314.
- Chlorobrassicic acid** (HOLT), 1892, A., 429.
- di*-**Chlorobrassicic acid** (HOLT), 1892, A., 429, 1427.
- di*-**Chlorobromacetamide** (ZINCKE and KEGEL), 1890, A., 489.
- 1:4-**Chlorobromacetanaphthalide** (MELDOLA and DESCH), 1892, T., 768.
- Chlorobromacetone**. See Acetone.
- hexa*-**Chlorodibromacetylacetone** (ZINCKE and KEGEL), 1890, A., 489.
- tri*-**Chlorobromacetylacrylic acid** (KUKULÉ and STRECKER), 1884, A., 1122.
- di*-**Chlorobromacetyl*penta*chlorobutyric acid** (ZINCKE and RABINOWITSCH), 1891, A., 691.

- β -*di*Chlorobromacrylic acid and its salts (MABERY and NICHOLSON), 1885, A., 507, 510.
- Chloro*di*bromacrylic acids, α - and β -, and their salts (MABERY and LLOYD), 1885, A., 510.
- ω -*di*Chlor-*m*-brom-*o*-amidoacetophenone (V. BAAYER and BLOEM), 1884, A., 1027.
- Chlorobromanilic acid (LING), 1887, T., 784.
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- tri*Chlorobromazimidobenzene (ZINCKE and ARZBERGER), 1889, A., 502.
- Chlorobromethane. See Ethylenic chlorobromide.
- Chloro*di*bromethane, action of zinc dust and alcohol on (GUSTAVSON), 1892, A., 1293.
- tri*Chlorobromethane (HENRY), 1884, A., 978.
- Chlorobromiodoacrylic acid (STOLZ), 1886, A., 531.
- Chlorobromiodoethane, and its decomposition (HENRY), 1884, A., 830.
- Chlorobromobenzene. See Benzene.
- Chlorobromobenzoic acids (WILLGERODT and SALZMANN), 1889, A., 985.
- di*Chloro*di*bromo-*n*-butane (NEWBURY), 1884, A., 295.
- ψ -Chlorobromocarbostyryl (DECKER), 1892, A., 630.
- Chlorobromocamphor. See Camphor.
- Chlorobromoform (Chloro*di*bromomethane) (DYSON), 1883, T., 36.
- tri*Chlorobromofurfuran (HILL and JACKSON), 1890, A., 601.
- Chlorobromohydroxyacrylic acid (MABERY and SMITH), 1890, A., 27.
- di*Chloro*di*bromoketohydrindene (ZINCKE and FRÖHLICH), 1887, A., 955.
- penta*Chlorobromoketopentene (ZINCKE and KÜSTER), 1890, A., 1256.
- Chlorobromomethane (methylene chlorobromide) (HENRY), 1886, A., 43.
- Chloro*di*bromomethane (DYSON), 1883, T., 36, 37.
- Chlorobromomethanesulphonic acid, barium salt of (ANDREASCH), 1886, A., 786.
- 2-Chloro-1:3'-*di*bromonaphthalene (CLAUS and PHILIPSON), 1891, A., 462.
- β -Chloro- α -bromonaphthalene (GUARESCHI), 1889, A., 614.
- Chlorobromonaphthalenes (GUARESCHI and BIGINELLI), 1887, A., 1113.
- p*-Chlorobromo- α -naphthaquinone (GUARESCHI and BIGINELLI), 1887, A., 1114.
- 3'-Chloro-1-bromo- β -naphthol (ARMSTRONG and ROSSITER), 1889, P., 72; 1891, P., 33.
- 1-Chloro-6-bromo- β -naphthylamine (ARMSTRONG and ROSSITER), 1891, P., 33.
- 1:4-Chlorobromo- β -naphthylamine (MELDOLA and DESCH), 1892, T., 768.
- 1:4:2-Chlorobromonitronaphthalene (MELDOLA and DESCH), 1892, T., 768.
- Chlorobromonitrophenol. See Phenol.
- Chlorobromonitroquinone (GARZINO), 1890, A., 1108.
- Chlorobromonitroterephthalic acid (WILLGERODT and WOLFIEN), 1889, A., 966.
- Chlorobromonitro-*p*-toluic acid (WILLGERODT and WOLFIEN), 1889, A., 966.
- 4-Chloro-5-bromonitro-*m*-xylene (CLAUS and GRONEWEG), 1891, A., 921.
- "*tri*Chloro-*m*-*di*bromoxybenzene" (BENEDIKT), 1883, A., 984.
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- Chloro*di*bromophenylic benzoate (GARZINO), 1890, A., 1108.
- Chlorobromo- β -phenylpropionic acid (ERLENMEYER), 1883, A., 196.
- 4-Chloro-5-bromophthalic acid (CLAUS and GRONEWEG), 1891, A., 921.
- p*-Chlorobromophthalide (GUARESCHI and BIGINELLI), 1887, A., 1114.
- Chlorobromopropionic acid. See Propionic acid.
- di*Chlorobromopyromucic acids (HILL and JACKSON), 1890, A., 601.
- di*Chlorobromopyruvic acid (HANTZSCH), 1890, A., 132.
- Chlorobromoquinol. See Quinol.
- Chlorobromoquinone. See Quinone.
- Chlorobromoterephthalic acid (WILLGERODT and WOLFIEN), 1889, A., 966.
- di*Chloro*di*bromotetrahydroxydiphenyl (BENEDIKT), 1883, A., 985.
- di*Chloro*di*bromotetraketohexamethylene (NEF), 1890, A., 1271.
- α -Chloro-*p*-bromothymoquinol (SCHNITER), 1887, A., 720.
- Chlorobromotoluenes (WILLGERODT and SALZMANN), 1889, A., 986.
- Chlorobromo-*p*-toluic acid (WILLGERODT and WOLFIEN), 1889, A., 966.

- 2-Chloro-5-bromo-*p*-toluic acid (CLAUS and DAVIDSON), 1892, A., 173.
- 4-Chloro-5-bromo-*m*-xylene and 4:5-dichloro-3-bromo-*m*-xylene (CLAUS and GRONWELT), 1891, A., 921.
- 2:4-diChloro-5:6-dibromo-*m*-xylene (KOCH), 1890, A., 1248.
- Chlorobromo-*p*-xylenes, and their derivatives (WILLGERODT and WOLFIEN), 1889, A., 965.
- di*Chlorobrucine (BECKURTS), 1890, A., 1330.
- α -*di*Chlorobutaldehyde (NATTERER), 1883, A., 965.
- tri*Chlorobutaldehyde (NATTERER), 1883, A., 966.
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- Chloroisobutaldehyde (BROCHET), 1892, A., 1292.
- tetra*Chloroisobutane (WILLGERODT and DÜRR), 1887, A., 570.
- penta*Chlorobutinenecarboxylamide (*pentachloropentamidic*) (ZINCKE and KÜSTER), 1890, A., 1257.
- penta*Chlorobutinenecarboxylic acid (ZINCKE and KÜSTER), 1888, A., 1278.
- Chlorobutyl derivatives, normal and primary (HENRY), 1886, A., 215.
- δ -Chlorobutylamine (GABRIEL), 1892, A., 131.
- Chloroisobutylamines, *mono*- and *di*- (BERG), 1892, A., 1172.
- p*-Chloroisobutylbenzene (v. DOFF-ZYCKI), 1888, A., 369.
- Chloroisobutylene (SCHIESCHKEOFF), 1884, A., 1276.
- di*Chloro- ψ -butylenic *di*bromide (NEWBURY), 1884, A., 295.
- Chlorobutylglyoxaline (*Chlorobutylglyoxalin*) (WALLACH), 1883, A., 59.
- tri*Chlorobutylic alcohol, action and fate of, in the animal organism (KÜLZ), 1885, A., 283.
- chloride, tertiary (WILLGERODT and DÜRR), 1887, A., 570.
- oxide, tertiary (WILLGERODT and DÜRR), 1887, A., 570.
- per*Chlorobutylic *per*chlorosebacate (GEHRING), 1887, A., 801.
- γ -Chlorobutyramide (HENRY), 1886, A., 216.
- α -*di*Chlorobutyranilide (RECHNER and SCHRAMM), 1888, A., 502.
- Chlorobutyric acids. See Butyric acids.
- γ -Chlorobutyric chloride (HENRY), 1886, A., 216.
- $\alpha\beta$ -*di*Chlorobutyric chloride (ZEISEL), 1886, A., 1007.
- Chlorobutyrimidoether hydrochloride (PINNER), 1884, A., 1292.
- γ -Chlorobutyronitrile (HENRY), 1886, A., 215; (GABRIEL), 1890, A., 1221.
- Chlorocaffeine (FISCHER and REESE), 1884, A., 466.
- Chlorocamphor. See Camphor.
- Chlorocamphorsulphonic acids, α - and β -, salts of (MARSH and COUSINS), 1891, T., 978.
- α -Chlorocamphorsulphonic chloride (MARSH and COUSINS), 1891, T., 978.
- Chlorocamphoryl chloride (MARSH), 1890, A., 995.
- Chlorocarbonylsulphamyl (SCHÖNE), 1885, A., 512.
- p*-Chlorocarbostyryl (*p*-chloro-2'-oxyquinoline) (EINHORN and LAUCH), 1888, A., 501.
- β -Chlorocarbostyryl (FRIEDLÄNDER and WEINBERG), 1883, A., 351.
- Chloro- β -carbostyryl (EINHORN and LAUCH), 1888, A., 501.
- Chlorocellulose, formation of, electrochemically (GOPPELSROEDER), 1885, A., 208.
- di*Chlorocinchonine (COMSTOCK and KOENIGS), 1892, A., 1011.
- α -Chlorocinnam-aldehyde and -aldoxime (NAAR), 1891, A., 562.
- Chlorocinnamic acid. See Cinnamic acid.
- Chlorocinnoline (BUSCH and KLETT), 1892, A., 1494.
- tri*Chlorocitrazinimide, compound of with aniline (RUHEMANN), 1888, A., 728.
- Chlorocitryl chloride, constitution of (SKINNER and RUHEMANN), 1889, T., 240.
- action of aniline and toluidine, of heat and of water on (SKINNER and RUHEMANN), 1889, T., 236.
- di*Chlorocomanic acid (OST), 1885, A., 49.
- Chlorocoumarone (KRAEMER and SPILKER), 1890, A., 496.
- Chlorocresol. See Cresol.
- Chlorocrotonaldehyde. See Crotonaldehyde.
- di*Chlorocrotonaldoxime (SCHIFF and TARUGI), 1892, A., 34.
- Chlorocrotonic acids. See Crotonic acids.
- Chlorocrotonylcarbamide (PINNER and LIESCHÜTZ), 1887, A., 1032.
- Chlorocruorine (GRIFFITHS), 1892, A., 1256.
- Chloroctylbenzene (AHRENS), 1887, A., 133.
- Chloro-cumene (*chloropropylbenzene*) (ERRERA), 1887, A., 35.
- Chloro- ψ -cumene (WALLACH and HEUSTLER), 1888, A., 362.

- o*-Chloroecumylacrylic acid (WIDMAN), 1891, A., 69.
- o*-Chloroecumylpropionic acid (WIDMAN), 1891, A., 69.
- Chloroeyanic acid (BELLMANN), 1884, A., 840.
- Chloroeyanuric iodide (KLASON), 1886, A., 1001.
- Chlorocymene. See Cymene.
- Chlorocymenesulphonic acid (CARRARA), 1890, A., 779.
- 6-Chlorocymene-2-sulphonic acid (ERRERA), 1890, A., 1288.
- tri*-Chloro-*meta*-cymene-6-sulphonic acid, and its sodium salt (KELBE), 1883, A., 806.
- Chlorodecane from American petroleum (LEMOINE), 1884, A., 1107.
- Chlorodecylic benzoate (GROSJEAN), 1892, A., 691.
- Chlorodehydrobenzoylacetic acid, preparation and properties of (PERKIN), 1885, T., 292.
- di*-Chloroisodehydrocholal (LASSAR-COHN), 1892, A., 741.
- Chlorodehydrocholic acid (LASSAR-COHN), 1892, A., 741.
- Chlorodeoxybenzoin (CURTIUS and LANG), 1892, A., 451.
- Chlorodeoxybenzoin-*o*-carboxylic acids, *α*-*di*- and *-tetra*- (GABRIEL and HENDESS), 1888, A., 145.
- p*-Chlorodesaurin (PETRENKO-KRITSCHENKO), 1892, A., 1227.
- 6-Chloro-2:5-diacetamidoquinol (KEHRMANN and TIESLER), 1890, A., 243.
- 6-Chloro-2:5-diacetamido-4-quinone (KEHRMANN and TIESLER), 1890, A., 243.
- Chlorodiacetylacetone (FEIST), 1892, A., 811.
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- tetra*-Chlorodiacetyl (*tetrachlorodimethyl diketone*), action of ammonia and ethylenediamine on (LEVY and JEDLIČKA), 1888, A., 443; (LEVY), 1890, A., 475.
- Chlorodiacetylquinol (SCHEID), 1884, A., 430.
- Chlorodiamylamine (BERG), 1890, A., 952.
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- 5-Chloro-3:6-dianilido-2-ethoxy-1:4-quinone (KEHRMANN), 1891, A., 903.
- Chlorodianilidophenylquinoneimide (ANDRESEN), 1884, A., 431.
- di*-Chlorodianthranyl (SACHSE), 1888, A., 1201; 1890, A., 638.
- di*-Chlorodianthranyl octochloride (SACHSE), 1890, A., 638.
- tetra*-Chloro-*meta*-diazine (*tetrachloropyrimidine*) (CLAMICAN and MAGNAGHI), 1886, A., 226.
- Chlorodiao-. See Diazo- under Azo.
- Chlorodiisobutylamine (BERG), 1892, A., 1173.
- Chlorodiisobutylene *di*chloride (MALBOT and GENTIL), 1889, A., 843.
- Chloro-2':3' or 4'-diethoxymethylquinoline (RÜCHEIMER and HOFFMANN), 1886, A., 160.
- Chlorodiethylamine (GATTERMANN), 1886, A., 796.
- Chlorodiethylenediamine cobalt chloride (JÜRGENSEN), 1889, A., 352.
- Chlorodihydrocecenic acid (HILSEBEIN), 1885, A., 1203.
- p*-*di*-Chlorodihydroterephthalic acid (LEVY and ANDREOCCHI), 1888, A., 840, 1091.
- Chloro-3:5-dihydroxybenzoic acids, *di*- and *tri*- (ZINCKE and FUCHS), 1892, A., 1461.
- Chlorodihydroxybutanes, *mono*- and *di*- (ZIKES), 1885, A., 1046.
- 3:2':4'-Chlorodihydroxydihydroquinoline (EICHENGRÜN and EINHORN), 1890, A., 1128; 1891, A., 1100.
- 6:3:2:5-Chloro-*p*-dihydroxyethoxyquinone (KEHRMANN), 1891, A., 904.
- Chlorodihydroxy-*α*-picolines, *di*- and *tri*- (HOFFMANN), 1889, A., 856.
- 3'-Chloro-2'-4'-dihydroxy-1-methylquinoline (*chlorohydroxy-*o*-toluicarboxystyryl*) (RÜCHEIMER and HOFFMANN), 1886, A., 160.
- 1:1'-*di*-Chloro-2:2'-dihydroxynaphthalene and 1:3:3':1'-*tetra*-chloro-2:2'-dihydroxynaphthalene (CLAUSIUS), 1890, A., 629.
- di*-Chlorodihydroxypentancarboxylic acid (HANTZSCH), 1888, A., 131; 1889, A., 853.
- tri*-Chlorodihydroxypentancarboxylic acid (HANTZSCH), 1888, A., 130; 1889, A., 853; (HOFFMANN), 1889, A., 856.
- 2:4-*di*-Chloro-1:1'-dihydroxyquinoline (HEBERBRAND), 1889, A., 61.
- Chlorodihydroxyisoquinoline (RÜCHEIMER), 1886, A., 702.
- Chloro-3:2:5-dihydroxyquinone (KEHRMANN and TIESLER), 1890, A., 242; (KEHRMANN), 1890, A., 756.
- di*-Chlorodihydroxyquinone. See Chloroanilic acid.
- p*-*di*-Chloro-*p*-dihydroxyterephthalic acid (HANTZSCH and ZECKENDORF), 1888, A., 278.

- Chloro-2:4-dihydroxy-*m*-xylene** (*chloro-dimethylresorcinol*) (WISCHIN), 1891, A., 74.
- tetraChlorodiketodihdropentene** (ZINCKE and RABINOWITSCH), 1891, A., 691.
- heptaChloro-*m*-diketohexamethylene** (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Chlorodiketohexene.** See Diketohexene.
- di*Chloro-*a*-diketohydrindene** (ZINCKE), 1888, A., 489.
- Chlorodiketohydronaphthalene.** See Diketohydronaphthalene.
- Chlorodiketopentamethylene** (HANTZSCH), 1888, A., 132.
- Chlorodiketopentamethylenecarboxylic acid** (HANTZSCH), 1888, A., 132.
- Chlorodiketopentamethylenehydroxycarboxylic acids, *mono*- and *di*-** (HANTZSCH), 1890, A., 131, 132.
- tri*Chlorodiketopentamethylenehydroxycarboxylic acid** (HANTZSCH), 1888, A., 1190; (LANDOLT), 1892, A., 835.
- tetra*Chlorodiketopentamethylenehydroxycarboxylic acid** (LANDOLT), 1892, A., 836.
- mono*Chloro- and *ε*-*dichloro-α-δ*-diketopentanecarboxylic acids** (HANTZSCH), 1889, A., 854.
- hexa*Chlorodiketotetrahydrobenzene** (ZINCKE and KÜSTER), 1888, A., 1277.
- tri*Chlorodimethylacetal** (MAGNANIMI), 1887, A., 28.
- tri*Chlorodimethylamidophenylquinone-imide** (MÖHLAU), 1884, A., 595.
- Chlorodimethylanilines, *o*- and *p*-, and derivatives** (HEIDLBERG), 1887, A., 474.
- 4-Chloro-2:6-dimethylpyridine** (4-*chloro-2:6-lutidine*) and its derivatives (CONRAD and EPSTEIN), 1887, A., 501.
- di*Chlorodimethylquinol** (CLAUS and RUNSCHE), 1890, A., 1247.
- tetra*Chlorodimethylquinoxaline** (LEVY, WITTE and CURCHOD), 1890, A., 232.
- Chlorodimethylresorcinol** (*chloro-2:4-dihydroxy-*m*-xylene*) (WISCHIN), 1891, A., 74.
- s-α*-*di*Chlorodimethylsuccinamic acid** (OTTO and HOLST), 1890, A., 958.
- α*-*di*Chloro-*s*-dimethylsuccinic anhydride** (OTTO and HOLST), 1890, A., 957.
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- tetra*Chlorodimethyltartar-amide and -imide** (LEVY, WITTE and CURCHOD), 1890, A., 233.
- per*Chlorodioxypiphenylene** (HUGOUNENQ), 1889, A., 1150.
- per*Chlorodiphenyl** (MERZ and WEITH), 1884, A., 589.
- p*-Chlorodiphenylamine** (IKUTA), 1888, A., 467.
- di-p*-Chlorodiphenylcarbamide** (HEWITT), 1891, T., 212.
- Chlorodiphenylcarbamides, *m*- and *p*-** (GOLDSCHMIDT and BARDACH), 1892, A., 979.
- di*Chlorodiphenyldi-*m*-carboxylic acid** (STOLLE), 1888, A., 700.
- o*-*di*Chlorodiphenylsulphone** (FRIEDEL and CRAFTS), 1887, A., 1101.
- tetra*Chlorodiphenyl** (GRAEBE and GUYE), 1886, A., 882.
- di*Chloroditolyl diacetylenedi-*amide*** (BISCHOFF and NASTVOGEL), 1890, A., 1161.
- di*Chloroditolyl** (STOLLE), 1888, A., 699.
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- Chlorodurenesulphonic acid** (TÖHL), 1892, A., 1465.
- α*-*di*Chlorofluorene** (HODGKINSON and MATTHEWS), 1883, T., 170.
- tri*Chlorofluorene** (HOLM), 1883, A., 922.
- β*-Chlorofluorescein** (GRAEBE and REE), 1886, T., 530.
- di*Chlorofluorescein** (LE ROYER), 1887, A., 832.
- tetra*Chlorofluorescein** (GRAEBE), 1887, A., 833.
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- preparation of, from acetone (ORNDORFF and JESSEL), 1889, A., 34.
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- Chloroform** (*trichloromethane*), action of alkali sulphides on (DEMONI), 1892, A., 421.
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- Chlorofumaric chloride** (PERKIN), 1888, T., 696.
molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
- Chlorofumarimides**, *mono*- and *di*- (CIAMICIAN and SILBER), 1884, A., 293.
- Chlorofurfurylacraldehyde** and its derivatives (MEHNE), 1888, A., 453.
- γ -Chlorofurfurylacrylic acid** (MEHNE), 1888, A., 453.
- γ -Chlorofurfurylpentac acid** (MEHNE), 1888, A., 453.
- tetraChlorogallein** (GRAEBE), 1887, A., 833.
- β -Chloroglutaconic acid** (BURTON and V. PECHMANN), 1887, A., 467.
- tetraChloroglutaconic acid** (ZINCKE and FUCHS), 1892, A., 1463.
- pentaChloroglutaric acid** (ZINCKE), 1892, A., 1186.
- 3:5-diChloroglutazine** (*dichloro-4-amido-2:6-dihydroxypyridine*) (STOKES and V. PECHMANN), 1887, A., 156.
- diChloroglyceryl acetate** (SEELIG), 1892, A., 289.
- Chloroglyceryl diacetate** (SEELIG), 1892, A., 289.
- Chloro-amphi- and anti-glyoximes** (HANTZSCH), 1892, A., 693.
- Chloroheptanesulphonic acid derivatives** (SPRING and WINSSINGER), 1888, A., 939.
- Chloroheptic acid derivatives** (SPRING and WINSSINGER), 1888, A., 939.
- triChlorohexahydrophloroglucinol** (HAZURA and BENEDIKT), 1886, A., 52.
- hexaChlorohexamethylbenzene** (COLSON), 1886, A., 1016.
- p-Chlorohydrazobenzene** (HEUMANN and MENTHA), 1886, A., 875.
- p-Chlorohydrazobenzene-o-carboxylic acid** (PAAL), 1892, A., 68.
- m-Chlorohydrindone** (V. MILLER and ROHDE), 1890, A., 1139.
- p-Chlorohydrindone** (MIERSCH), 1892, A., 1222.
- Chlorohydrocinnamic acid**. See Chloro- β -phenylpropionic acid.
- Chlorohydrolapachol** (HOOKER), 1892, T., 631.
- Chlorohydroxyamidohydroxyquinone-oxime** (KEHRMANN and TIESLER), 1890, A., 493.
- diChloro-p-hydroxybenzoic acid** (CLAUS and RIEMANN), 1883, A., 1112; (ZINCKE and WALBAUM), 1891, A., 710.
- Chloro-m-hydroxybenzoic acids**, *tri*- and *tetra*- (ZINCKE and WALBAUM), 1891, A., 709.
- tetraChlorohydroxyisobutyramide**, formation of (LEVY, WITTE and CURCHOD), 1890, A., 234.
- Chlorohydroxybutyric acids**. See Hydroxybutyric acids.
- α -Chlorohydroxybutyro-o-toluide-o-tolylcarbamine** (RÜGHEIMER and SCHRAMM), 1888, A., 503.
- Chlorohydroxydiethylallylamine** (REBOUL), 1884, A., 578.

- di*Chlorohydroxydiketohydrindocarb-
oxylic acid (ZINCKE), 1888, A., 489.
- 2:4-*di*Chloro-1-hydroxy-1'-ethoxy-
quinoline (HEBERBRAND), 1889, A., 61.
- tri*Chlorohydroxyethylidene-2'-methyl-
β-naphthaquinoline (SEITZ), 1889, A.,
527.
- 2'-Chloro-4'-hydroxy-3'-ethylquinoline
(RÜGHEIMER and SCHRAMM), 1887,
A., 738.
- Chlorohydroxyethyltrimethyl-
ammonium platinochloride (BODE),
1892, A., 807.
- tetra*Chloro-α-hydroxyhydrindene and
dichlorohydroxyketohydrindene
carboxylamide (ZINCKE and ARNST),
1892, A., 858.
- di*Chlorohydroxyketohydrindenecarb-
oxylic acid, chlorinated and
brominated (ZINCKE and GERLAND),
1888, A., 1198, 1199.
- Chlorohydroxyketoindene (ZINCKE and
GERLAND), 1888, A., 1199.
- 3'-Chlorohydroxy-1-methylcarbostyryl
[(OH)₂ = 2':4'] (RÜGHEIMER and
HOFFMANN), 1886, A., 160.
- 2'-Chloro-4'-hydroxy-1-methyl-3'-
ethylquinoline (RÜGHEIMER and
SCHRAMM), 1887, A., 738.
- di*Chlorohydroxymethylpurin (FIS-
CHER), 1884, A., 996.
- Chloro-δ-hydroxy-β-methylquinazoline
(DEHOFF), 1890, A., 802.
- 2':3'-*di*Chloro-4'-hydroxy-1-methyl-
quinoline, 3':4'-*dichloro*-2'-hydroxy-
1-methylquinoline and 3':4'-*di*-
chloro-2'-hydroxy-3-methylquinoline
(RÜGHEIMER and HOFFMANN), 1886,
A., 160.
- Chlorohydroxymethylisoquinoline
(GABRIEL), 1887, A., 1112.
- tri*Chlorohydroxymethylsuccinic acid,
and its salts (FITTIG and MILLER),
1890, A., 586.
- Chlorohydroxynaphthaquinone. See
Hydroxynaphthaquinone.
- ββ-Chlorohydroxynaphthaquinoneanil-
ide (ZINCKE and KEGEL), 1889, A.,
268.
- Chlorohydroxynaphthaquinone-α-carb-
oxylic acid (EKSTRAND), 1889, A.,
153.
- Chlorohydroxynaphthaquinoneimide
and β-chlorohydroxy-α-naphthaquin-
oneoxime (ZINCKE and SCHMUNK),
1890, A., 1147.
- Chloro-α-hydroxynaphthaquinonesulph-
onic acid (CLAUS and VAN DER
CLOET), 1888, A., 603.
- Chlorohydroxy-α-naphthoic acid (EK-
STRAND), 1889, A., 153.
- αβ-*di*Chloro-β-hydroxy-α-naphthyl-
phenylamine (ZINCKE and KEGEL),
1889, A., 268.
- Chlorohydroxyoxydipropionic acid
(WILLGERODT and SCHIFF), 1890, A.,
959.
- γγ-*hexa*Chloro-α-hydroxypentene cyan-
ide (ZINCKE and KÜSTER), 1890, A.,
1256.
- γγ-*hexa*Chlorohydroxypentenecarb-
oxylic acid (ZINCKE and KÜSTER),
1890, A., 754.
- Chlorohydroxyphenindulone (KEHR-
MANN and MESSINGER), 1891, A.,
747.
- ββ-*di*Chloro-α-hydroxyphenylpyridone
and its carboxylic acid (ZINCKE and
FUCHS), 1892, A., 448, 449.
- Chlorohydroxyphenylthiazole (SCHATZ-
MANN), 1891, A., 745.
- Chlorohydroxypicolinic acid. See Hydr-
oxypicolinic acid.
- β-*tri*Chloro-α-hydroxypropenyl-amid-
oxime and -ethenylazoxime (RICH-
TER), 1892, A., 321.
- ω-*tri*Chloro-β-hydroxypropylacridine
(*methyl acridinechloral*) (BERNTSEN
and MUHLERT), 1887, A., 849.
- tri*Chlorohydroxypropylamine (FAU-
CONNIER), 1888, A., 1265.
- ω-*tri*Chlorohydroxypropylpyrroline
(EINHORN and LIEBRECHT), 1887,
A., 845.
- tri*Chloro-α-hydroxypropylquinoline
(EINHORN), 1886, A., 721.
- di*Chlorohydroxypyridine KOENIGS and
GEIGY, 1884, A., 1369.
- Chlorohydroxyquinoline. See Hydroxy-
quinoline.
- Chlorohydroxyisoquinolines, *mono*- and
di- (RÜGHEIMER), 1886, A., 702.
- 2-Chloro-3-hydroxyquinolinequinone
and its anilide (ZINCKE) 1891, A.,
1251.
- p*-Chlorohydroxyquinone (STIEGLITZ),
1891, A., 456.
- Chlorohydroxy-α-tolucarbostyryl. See
3'-Chloro-2':4'-dihydroxy-1-methyl-
quinoline.
- di*Chlorohydroxytrimethyluracil (HA-
GEN), 1888, A., 582.
- Chlorohydroxyvaleric acids (MELI-
KOFF and PETRENKO-KRITSCHENKO),
1890, A., 736, 862; (MELIKOFF),
1888, A., 1177.
- Chloroketodihydroquinolines, *tri*- and
tetra- (ZINCKE), 1891, A., 1250.
- tetra*Chloroketohydrindene (ZINCKE and
FRÜHLICH), 1887, A., 955.
- Chloroketohydronaphthalene. See Keto-
hydronaphthalene.

- tri*Chloro- β -ketohydronaphthalene- α -oxime (ZINCKE and SCHMUNK, 1890, A., 1148.
- γ -Chloro- α_2 ketojuloline (REISSER, 1892, A., 884.
- Chloroketonaphthalene. See Ketonaphthalene.
- hexa*Chloroketopentene [m.p. 31°] (ZINCKE and KÜSTER), 1888, A., 1278.
- $\gamma\gamma$ -*hexa*Chloroketopentene [m.p. 92°] (ZINCKE and KÜSTER), 1889, A., 599; 1890, A., 754, 1255.
- penta*Chloro- α -ketophenyl- γ -piperidone (ZINCKE and FUCHS), 1892, A., 449.
- tri*Chloroketoquinoline (HEBEBRAND, 1889, A., 61.
- penta*Chloroketoquinoline, derivatives of (HEBEBRAND), 1889, A., 62.
- Chloroketotetrahydrobenzoic acids, *penta*- and *hexa*- (ZINCKE and WALBAUM), 1891, A., 708, 710.
- tetra*Chloroketotetrahydroquinoline hydrate (ZINCKE), 1891, A., 1252.
- tetra*Chloroketotrihydroxypentamethylenecarboxylic acid (HANTZSCH), 1890, A., 130.
- tri*Chlorolactic acid, preparation of glycol derivatives from (PINNER), 1884, A., 1298.
- Chlorolactic acids, decomposition products of the sodium salts of (REISSE), 1890, A., 1097.
- α -Chloro- γ -lepidine. See 2'-Chloro-4'-methylquinoline.
- tri*Chlorolimettin (TILDEN), 1892, T., 349.
- Chlorolevulinic acids, *mono*- and *di*- (SEISSL), 1889, A., 489.
- Chloro-2:6-lutidine. See Chloro-2:6-dimethylpyridine.
- di*Chloromaleinamic acid (CIAMICIAN and SILBER), 1890, A., 25.
- Chloromaleic acid (KAUDER), 1885, A., 652; (PERKIN), 1888, T., 706; P., 75.
- di*Chloromaleic acid and its anhydride (KAUDER), 1885, A., 652.
- Chloromaleic anhydride (PERKIN), 1888, T., 703; P., 75.
- di*Chloromaleic phenylimide and α - and β -*di*chloromaleic *tetrachlorides* (KAUDER), 1885, A., 652.
- Chloromaleinimide. See Maleinimide.
- di*Chloromaleinphenylimido-chloride and -dimethyl and -diethyl ethers (ANSCHÜTZ and BEAVIS), 1891, A., 1047, 1048.
- Chloromecenic acid and its salts (HILSEBEIN), 1885, A., 1202.
- per*Chloromecylene (OST), 1883, A., 796.
- Chloromercuric acid (NEUMANN), 1889, A., 1050.
- tri*Chloromesitylene (FRIEDEL and CRAFTS), 1887, A., 1101.
- Chloromethane. See Methyl chloride.
- di*Chloromethane. See Methylene dichloride.
- tri*Chloromethane. See Chloroform.
- tetra*Chloromethane. See Carbon tetrachloride.
- Chloromethanedisulphonic acid (ANDREASCH), 1886, A., 787.
- Chloromethoxybenzoic acid (*chloranisic acid*) (SCHALL and DRALLE, 1885, A., 146.
- Chloromethoxybenzoic anhydride (*chloranisaldehyde*) (TIEMANN), 1891, A., 703.
- tetra*Chloromethoxyethane (MAGNANIMI), 1887, A., 28.
- 4'-Chloro-*p*-methoxy-2'-methylquinoline (CONRAD and LIMPACH), 1888, A., 853.
- Chloromethoxyisoquinoline [m.p. 73°-74°] (GABRIEL), 1887, A., 62.
- Chloro-*p*-methoxytoluene (SCHALL and DRALLE), 1885, A., 146; (LIMPACH), 1889, A., 499.
- Chloromethyl *tetrachloropropyl* ketones, *di*- and *tri*- (ZINCKE and FUCHS), 1892, A., 1462, 1463.
- di*Chloromethyl chlorovinyl *o*-diketone (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Chloromethylamidobenzoic acids (LA COSTE and BODEWIG), 1885, A., 793.
- diper*Chloromethylamidocyanidine and *diper*chloromethylidiamidocyanidine (WEDDIGE), 1886, A., 324.
- penta*Chloromethylamido-*p*-diketohexene (ZINCKE and FUCHS), 1892, A., 449.
- ω -Chloromethyl-*o*-amidostyrene (LIPP), 1885, A., 167.
- p*-Chloromethylaniline (MELDOLA and STREATFIELD), 1889, T., 436; P., 98.
- o*-Chloromethylbenzamide (GABRIEL), 1887, A., 1038.
- Chloro- α -methylcinnamic acid. See Chlorophenylcrotonic acid.
- Chloromethylcrotonic acid. See Chlorotiglic acid.
- Chloro-3-methyl-2':3'- or 4'-diethoxyquinoline (RÜGHEIMER and HOFFMANN), 1886, A., 160.
- Chloromethylenephthalide (ZINCKE and COOKSEY), 1890, A., 786.
- tri*Chloromethylethylacetal (MAGNANIMI), 1887, A., 28.

- Chloro-5-methyl-1-ethylglyoxaline** (*chloracetaldehylin*) and its derivatives (WALLACH), 1883, A., 49.
- m*-Chloro- β -methylhydrindone (V. MILLER and ROHDE), 1890, A., 1119.
- α -Chloro- α -methylhydroxybutyric acid (MELIKOFF and PETRENKO-KRITSCHENKO), 1890, A., 862.
- β -Chloro- α -methyl- α -hydroxybutyric acid (MELIKOFF), 1888, A., 1177.
- Chloromethylindene (V. MILLER and ROHDE), 1889, A., 984.
- Chloromethyl- ψ -isatin (LA COSTE and BODEWIG), 1885, A., 792.
- Chloro- α - and - β -methylnaphthalenes (SCHERLER), 1892, A., 491.
- Chloro- β -methylnaphthalenes, *di*-, *tri*- and *tetra*- (SCHERLER), 1892, A., 493.
- Chloro-2'-methyl- β -naphthaquinoline (EPHRAIM), 1892, A., 1488.
- di*Chloromethylloxindole (COLMAN), 1889, T., 4; P., 95.
- di*Chloromethylparaconic acid (FITTIG and MILLER), 1890, A., 587.
- tri*Chloromethylparaconic acid (FITTIG), 1888, A., 252; (FITTIG and MILLER), 1890, A., 586.
- tetra*Chloromethylphthalide (ZINCKE and COOKSEY), 1890, A., 786.
- Chloromethylpiaselenole (HINSBERG), 1890, A., 973.
- tri*Chloromethylpropylcarbinol (*trichloroanalogic alcohol*) and its derivatives (V. GARZAROLI-THURNLACKH), 1884, A., 1118.
- tri*Chloromethylpurin (FISCHER), 1884, A., 996.
- Chloromethylpyridine. See Chloro- α -picoline.
- $\alpha\beta$ -*tri*Chloromethyl- γ -pyridone and its carboxylic acid (ZINCKE and FUCHS), 1892, A., 450.
- Chloromethylquinoline and its derivatives. See Methylquinoline.
- Chloromethylstilbene (SUBBOROUGH), 1892, A., 1221.
- tri*Chloromethylsulphonic chloride (MCGOWAN), 1885, A., 367.
preparation of (BASSETT), 1886, A., 1000.
dissociation of (NÖLTING), 1883, A., 38.
action of ammonia on (MCGOWAN), 1884, A., 1126.
- tri*Chloromethylsulphonylthiocarbamide (MCGOWAN), 1887, T., 669.
- Chloromethylthiazolecarboxylic acid (WOHMANN), 1891, A., 226.
- β -*di*Chloromuconamic acid (RUEHMANN and ELLIOTT), 1890, T., 934.
- di*Chloromuconic acid, reduction products of (V. BAAYER and RUDE), 1890, A., 875.
- β -*di*Chloromuconic acid and its amide (RUEHMANN and ELLIOTT), 1890, T., 932.
- di*Chloro- α -naphthalenichloroquinol (CLAUS), 1886, A., 714.
- Chloronaphthalene. See Naphthalene.
- β -Chloronaphthalenedisulphonic acids (ARMSTRONG and WYNNE), 1890, P., 131.
- 2-Chloronaphthalene-1:6-disulphonic acid chloride (FORSLING), 1889, A., 276.
- Chloronaphthalenesulphonic acid. See Naphthalenesulphonic acid.
- di*Chloro-1:4-naphthaquinol (CLAUS), 1886, A., 714.
- Chloronaphthaquinone. See Naphthaquinone.
- anilide. See Naphthaquinone anilide.
- di*Chloronaphthaquinonecarboxylic acid (EKSTRAND), 1889, A., 152.
- Chloro- β -naphthaquinone derivatives (ZINCKE), 1887, A., 53.
- di*Chloro- α -naphthaquinone *di*chloride (CLAUS), 1890, A., 786.
- Chloro- β -naphthaquinone- α -oximes, *mono*- and *di*- (ZINCKE and SCHMUCK), 1890, A., 1146, 1147.
- 2:3-*di*Chloro- α -naphthaquinone-3'-sulphonic acid (CLAUS and VAN DER CLOET), 1888, A., 602.
- β -Chloronaphthaquinonetoluidides, *o*- and *p*- (CLAUS and MUELLER), 1886, A., 247.
- Chloronaphthoic acid. See Naphthoic acid.
- α -Chloronaphthoic *tri*chloride (WOLFENSTEIN), 1888, A., 714; 1889, A., 615.
- β -Chloronaphthoic *tri*chloride (RABE), 1889, A., 511.
- Chloronaphtholactone (EKSTRAND), 1889, A., 153.
- Chloronaphthol. See Naphthol.
- Chloro- β -naphthol-3'-sulphonic acid, derivatives of (ARMSTRONG and ROSSITER), 1889, P., 72.
- Chloro- α -naphthonitrile (EKSTRAND), 1884, A., 1361.
- Chloro- β -naphthonitriles, *mono*- and *di*-, and their derivatives (EKSTRAND), 1891, A., 972.
- 1-Chloronaphthostyryl (EKSTRAND), 1889, A., 153.
- di*Chloronaphthostyryl (EKSTRAND), 1886, A., 715.
- Chloronaphthylamine. See Naphthylamine.

- β -Chloro α -naphthylamine-2'-sulphonic acid** (CLEVE), 1892, A., 1179.
- α -Chloro- β -naphthylaminesulphonic acids** (the [1:2:4'], [1:2:3'], and [1:2:2'] acids) (ARMSTRONG and WYNNE), 1889, P., 36, 18.
- Chloro- α - and - β -naphthylethylenes** (LEROY), 1892, A., 195.
- 6-Chloronicotinic acid** (v. PECHMANN and WELSH), 1885, T., 151.
- d*-Chloronicotinic acid** (SEYFFERTH), 1887, A., 158.
- o*-*d*-Chloro-*o*-nitroacetophenone** (GEVEKOKT), 1884, A., 445.
- Chloro-3-nitro-*p*-acetotoluidide** (ECKENROTH and DONNER), 1891, A., 195.
- 3:6-Chloronitro-*p*-acetotoluide** (CLAUS and BÜCHER), 1892, A., 173.
- Chlorotritranilidonaphthalene** (CLEVE), 1890, A., 626.
- p*-Chloro-*m*-nitraniline and its derivatives** (CLAUS and STIEBEL), 1887, A., 810.
- d*-Chloronitr-, 2:4:6-trichloro-3:5-*d*-nitr-, and 2:4:6-trichloro-3-nitro-anisole** (HUGOUNENQ), 1890, A., 240.
- Chloronitrazobenzene.** See Azobenzene.
- Chloronitroethylbenzenes** (ISTRATI), 1888, A., 260.
- o*-*d*-Chloronitroethylbenzoylcarboxylic acid** (ZINCKE and LATTEN), 1892, A., 1229; (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- d*-Chloronitroethyl-*m*-diazine** (PINNER), 1889, A., 1007.
- Chloronitriles, volatility of** (HENRY), 1885, A., 1044.
- Chloronitrobenzaldehyde.** See Benzaldehyde.
- p*-Chloro-*m*-nitrobenzanilide** (RAVEILL), 1884, A., 601.
- Chloronitrobenzene.** See Benzene.
- 4-Chloro-3-nitrobenzenesulphonic acid** (FISCHER), 1892, A., 182.
- 2-Chloro-5-nitrobenzenesulphonic acid** (CLAUS and MANN), 1891, A., 1488; (FISCHER), 1892, A., 182.
- Chloronitrobenzoic acid.** See Benzoic acid.
- Chloronitrobenzonitriles** (CLAUS and KURZ), 1888, A., 594.
- o*-Chloro-*p*-nitrobenzyllic alcohol, anilide and methyl and ethyl ethers** (WITT), 1892, A., 444.
- bromide** (TIEMANN), 1891, A., 704.
- derivatives of** (WITT), 1892, A., 444.
- Chloronitrocampbor.** See Campbor.
- α -Chloro-*o*-, -*m*- and -*p*-nitrocinnamaldehydes** (NAAR), 1891, A., 562.
- m*-Chloro-*o*-nitrocinnamic acid and ketone** (EICHENGRÜN and EINHORN), 1891, A., 1098.
- Chloro-*o*- and -*m*-nitrocinnamic acids** (NAAR), 1891, A., 564.
- 2:5-Chloronitro-*p*-cymene and 2-chloro-*d*-nitro-*p*-cymene** (FILET and ROSA), 1889, A., 493.
- Chloronitrocymenesulphonic acid** (CARARA), 1890, A., 780.
- o*-*d*-Chloro-*p*-*d*-nitro-dibenzylamine and -dibenzylaniline** (WITT), 1892, A., 445.
- 2:3:5-*d*-Chloronitrodihydroterephthalic acid** (LEVY and ANDREOCCHI), 1888, A., 1091.
- 3:4:3-*d*-Chloronitro-1:2-diketohydronaphthalene hydrate** (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- allo*-*m*-Chloro-*o*-nitrodiphenylhydrazine,** preparation of (WILLGERODT and ELLON), 1891, A., 1361.
- m*-Chloro-*o*-nitrohydrazobenzene** (WILLGERODT and FERKO), 1888, A., 830.
- o*-Chloronitrohydroxyethylbenzoic acid, lactone of** (ZINCKE and LATTEN), 1892, A., 1230.
- 3':4'-*d*-Chloro-*d*-nitro-2'-hydroxy-3-methylquinoline** (RÜGHEIMER and HOFFMANN), 1886, A., 160.
- m*-Chloro-*o*-nitro- β -hydroxyphenylethyl methyl ketone** (EICHENGRÜN and EINHORN), 1890, A., 1128; 1891, A., 1099.
- m*-Chloro-*o*-nitro- β -hydroxyphenylpropionamide** (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1100.
- m*-Chloro-*o*-nitro- β -hydroxyphenylpropionic acids** (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1099.
- m*-Chloro-*o*-nitro- β -hydroxyphenylpropionic aldehyde** (EICHENGRÜN and EINHORN), 1891, A., 1100.
- Chloro-*d*-nitromethane, reduction of** (RASCHIG), 1886, A., 323.
- d*-Chloro-*d*-nitromethane** (LOSANITSCH), 1884, A., 1108.
- tri*-Chloronitromethane.** See Chloropicrin.
- o*-Chloronitromethoxyethylbenzoic acid** (ZINCKE and LATTEN), 1892, A., 1231.
- d*-Chloronitromethylphthalide** (ZINCKE and LATTEN), 1892, A., 1231.
- 4'-Chloro-3'-nitro-2'-methylquinoline** (CONRAD and LIMPACH), 1888, A., 1111.
- β -Chloro- α -nitronaphthalene [1:2']** (ARMSTRONG and WYNNE), 1889, P., 71.

- d*-Chloro-*l*-nitronaphthalenes (CLEVE), 1890, A., 626.
- β -Chloro- α -nitronaphthalene-2'-sulphonic acid (CLEVE), 1892, A., 1478.
- $\alpha\beta$ -Chloronitro- β -naphthaquinone (ZINCKE and KEGEL), 1889, A., 266.
- 5-Chloro- δ -nitro- α -naphthoic acid (EKSTRAND), 1886, A., 156.
- 1:1':4'-Chloronitronaphthoic acid (EKSTRAND), 1889, A., 53.
- β -Chloro-2'-nitronaphthol (GAESS), 1892, A., 1229.
- Chlorotrinitronaphthol (CLEVE), 1890, A., 627.
- Chlorotrinitronaphthylamine (CLEVE), 1890, A., 626.
- Chloronitronitrosoazoxybenzene (WILLGERODT and MÜHEL), 1892, A., 455.
- tri*-Chloronitrophenetol (LAMPERT), 1886, A., 616.
- Chloronitrophenol. See Phenol.
- m*-Chloro-*o*-nitrophenyl- β -bromopropionic acid (EICHENGRÜN and EINHORN), 1890, A., 1127.
- Chloronitrophenylethanes (ISTRATI), 1888, A., 260.
- d*-Chloronitrophenylethylglyoxylic acid (ZINCKE and LATTEN), 1892, A., 1229; (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- tri*-Chloronitrophenylic-*m*- and -*o*-nitrobenzoates (DACCOMO), 1885, A., 890.
- 1':4':3'-Chloronitrophenylisoquinoline (GABRIEL), 1886, A., 631.
- d*-Chloronitropyromucic acid (HILL and JACKSON), 1890, A., 601.
- Chloronitroquinones (GUARESCHI and DACCOMO), 1885, A., 891.
- 2:1:6-Chloro-*d*-nitroresorcinol (KEHRMANN), 1890, A., 241.
- Chloronitrosoazobenzene. See Azobenzene.
- p*-Chloro-*d*-nitrosoazoxybenzene (WILLGERODT and BÖHM), 1891, A., 905.
- p*-*d*-Chloro-*p*-*d*-nitrosobenzene (KEHRMANN), 1889, A., 245.
- Chloro-*p*-nitrosodiphenylamine (IKUTA), 1888, A., 468.
- Chloronitrosonaphtharesorcinol (v. KOSTANECKI), 1889, A., 887.
- d*-Chloro-*d*-chloronitrosoditoluene (*bis*-chloronitrosulbenzyl) (BEHREND and NISSEN), 1892, A., 1200.
- o*-*d*-Chloro-*p*-*d*-nitrostilbene (WITT), 1892, A., 444.
- ω -Chloro-*o*-nitrostyrene (LIFF), 1884, A., 1030.
- m*-Chloro-*o*-nitrostyryl methyl ketone (EICHENGRÜN and EINHORN), 1891, A., 1099.
- o*-*d*-Chloro-*l*-nitrosyldibenzyl (BEHREND and NISSEN), 1892, A., 1200.
- Chloronitrothiophen (ROSENBERG), 1886, A., 534.
- tri*-Chloronitrotoluene. See Toluene.
- Chloronitro-*p*-toluic acid. See *p*-Toluic acid.
- 2-Chloro-5-nitro-*p*-toluidine and 2-chloro-6-nitro-*p*-toluidine (CLAUS and DAVIDSEN), 1892, A., 172.
- 3-Chloro-6-nitro-*p*-toluidine and 3-chloro-6-nitro-*p*-toluonitrile (CLAUS and BÖCHER), 1892, A., 173.
- 2-Chloro-5-nitro-*p*-toluonitrile (CLAUS and DAVIDSEN), 1892, A., 172.
- 4-Chloro-5-nitro-*m*-xylene (CLAUS and GRONWEG), 1891, A., 921.
- 4-Chloro-6-nitro-*m*-xylene (ÄHRENS), 1892, A., 1437.
- 1:6-*d*-Chloro-2:5-*d*-nitro-*m*-xylene (Koch), 1890, A., 1248.
- 4-5-*d*-Chloro-3:6-*d*-nitro-*o*-xylene (CLAUS, RAPS, HERFELD and BERKEFELD), 1891, A., 1201.
- 2:5-*d*-Chloro-*l*-nitro-*p*-xylene (KLUGE), 1885, A., 1208.
- Chlorononane, from American petroleum (LEMOINE), 1884, A., 1106.
- Chloropal, analyses of (SMITH), 1884, A., 662.
- variety of, from Albemarle Co., Virginia (CHAPPELL), 1885, A., 228.
- d*-Chloropararosaniline (HEUMANN and HEIDLBERG), 1886, A., 942.
- Chloropentamethylbenzene (TÜHL), 1892, A., 968.
- Chloro- α -penta-resorcinoldichroin ether (BRUNNER and CHUIT), 1888, A., 1182.
- Chloropentenyl alcohol. See Methylchlorallylcarbinol.
- Chloropentethylbenzene (ISTRATI), 1886, A., 231.
- penta*-Chloropentolamide. See *penta*-chlorobutinenecarboxylamide.
- d*-Chlorophenanthrone, reduction of (LACHOWICZ), 1884, A., 81.
- tri*-Chlorophenetol (LAMPERT), 1886, A., 616.
- Chlorophenol. See Phenol.
- o*-*p*-*d*-Chlorophenol-*o*-sulphonic acid, action of sulphuric acid on (GORDON), 1891, P., 64.
- tri*-Chlorophenomalic acid. See Acetylacrylic acid, *trichlor*.
- tri*-Chlorophenoxyethylene (*phenyl trichlorovinyl ether*) (MICHAEL), 1886, A., 614.
- Chlorophenylacetonitrile (MICHAEL and JEANPRÉRE), 1892, A., 1088.

- di*Chlorophenylamido- β -naphthol (ZINCKE and KEGEL), 1889, A., 268.
- p*-Chlorophenylisobutane (v. DOERZYCKI), 1888, A., 369.
- Chlorophenylbutyric acid (FITTIG and MORRIS), 1890, A., 891; (v. MILLER and ROHDE), 1890, A., 1140.
- di* *p*-Chlorophenylcarbamide (HEWITT), 1891, T., 212.
- Chlorophenylcrotonic acids. See Phenylcrotonic acids.
- di*Chlorophenylenediamine hydrochloride (MÖHLAU), 1886, A., 941.
- Chlorophenylethanes, *o*-, *m*- and *p*- (ISTRATI), 1885, A., 251.
- Chlorophenylhydrazine and its derivatives. See Phenylhydrazine.
- Chlorophenylic benzoates (Mosso), 1888, A., 456.
- o*-, *m*- and *p*- (DACCOMO), 1892, A., 308.
- phthalate (Mosso), 1888, A., 456.
- sulphide (MICHAELIS and GODCHAUX), 1891, A., 715.
- di*thiocarbonate (DACCOMO), 1892, A., 306, 307.
- xanthate (DACCOMO), 1892, A., 308.
- tri*Chlorophenylic *m*-nitrobenzoate (DACCOMO), 1885, A., 890.
- p*-Chlorophenylic phenylsemithiocarbazide (HEWITT), 1891, T., 212.
- p*-Chloro-2'-phenylindazole (PAAL), 1891, A., 724.
- Chloro-2'-phenylindole (BISCHLER), 1892, A., 1466.
- Chlorophenylmethylenesulphone (OTTO), 1888, A., 483.
- m*-Chloro- β -phenyl- α -methylpropionic acid (v. MILLER and ROHDE), 1890, A., 1140.
- di*Chlorophenylmethylpyrazolonesulphonic chloride (MÖLLENHOFF), 1892, A., 1246.
- Chlorophenylmethylsulphones, *mono*- and *di*- (OTTO), 1890, A., 380, 381.
- Chlorophenylparaconic acid. See Phenylparaconic acid.
- α -Chlorophenyl-*ald*-phenylnaphthotriazine (MELDOLA and FORSTER), 1891, T., 690.
- Chlorophenylphenylsemithiocarbazides, *o*- and *p*- (HEWITT), 1891, T., 210, 212.
- p*-Chloro- β -phenylpropionic acid (MIERSCH), 1892, A., 1222.
- di*Chloro- β -phenylpropionic acids, α - and β - (ERLENMEYER), 1883, A., 196.
- Chloro- β -phenylpropionic acids, *m*-, *o*-, and *p*- (HERZBERG), 1885, A., 661.
- $\alpha\beta$ -*tri*Chloro- γ -phenylpyridone and $\alpha\beta\delta$ -trichlorophenyl- γ -pyridonecarboxylic acid (ZINCKE and FUCHS), 1892, A., 448.
- o*-Chlorophenylsemicarbazide (HEWITT), 1891, T., 210.
- p*-Chlorophenylsulphonehydroxypropionic acid (KÖNIG), 1892, A., 1091.
- p*-Chlorophenylurazole (HEWITT), 1891, T., 212.
- Chlorophloroglucinols (HAZURA and BENEDIKT), 1886, A., 52.
- tri*Chlorophloroglucinol (WEBSTER), 1885, T., 423; (ZINCKE and KEGEL), 1889, A., 967.
- Chlorophthalic acids. See Phthalic acids.
- Chlorophthalic anhydride. See Phthalic anhydride.
- Chlorophthalic chloride (GRAEBE and RÉE), 1886, T., 527.
- di*Chlorophthalide (LE ROYER), 1887, A., 832.
- p*-*di*Chlorophthalide (GUARESCHI), 1886, A., 808.
- β -Chlorophthalimide (GRAEBE and RÉE), 1886, T., 529.
- di*Chlorophthalimide (LE ROYER), 1887, A., 832.
- Chlorophyll and chlorophyllan. See Agricultural chemistry.
- Chlorophyllite from Loquidy, near Nantes (BARET), 1883, A., 443.
- Chloro- α -picolines (chloromethylpyridine), *mono*-, *hexa*- and *penta*- (OST), 1883, A., 793.
- di*Chloro- α -picoline (COLLIE and MYERS), 1892, T., 725.
- Chloropicolinic acid, [m.p. 180°] (SEYFFERTH), 1887, A., 157.
- Chloropicolinic acid [m.p. 168°], *di*chloropicolinic acid and their salts (OST), 1883, A., 794.
- Chloropicrin, reduction of (RASCHIG), 1886, A., 323.
- syntheses with (ELBS), 1883, A., 1000.
- di*Chloropiperazine (SCHMIDT and WICHMANN), 1892, A., 211.
- Chloroplastids and chloroplastin (SCHWARTZ), 1888, A., 983.
- Chloroplatinic acid (PIGEON), 1891, A., 1325.
- Chloroprehnitenes, *mono*- and *di*- (TÖHL), 1892, A., 967.
- α -*di*Chloropropaldehyde (SPRING and TART), 1890, A., 955.
- Chloropropanes, *tri*- and *tetra*- (SPRING and WINSSINGER), 1883, A., 659.
- 1:2:3-*tri*Chloropropane. See Trichlorohydrin.

- heva*Chloropropane (LEVY and CURCHOD), 1889, A., 1136.
- Chloropropanesulphonic acid** (SPRING and WINSSINGER), 1883, A., 659.
- tri*Chloropropenylquinoline (EINHORN and LEHNKERING), 1888, A., 1208.
- β -*di*Chloropropionic acid, and its derivatives (FROMME and OTTO), 1887, A., 912.
- tetra*Chloropropionic acid (MABERY and SMITH), 1890, A., 27.
- α -*di*Chloropropionic anhydride (OTTO and HOLST), 1890, A., 1327.
- α -*di*Chloropropionitrile, solid (OTTO and VOIGT), 1887, A., 1024.
molecular weight of (OTTO), 1890, A., 726.
- o-penta*Chloropropionylbenzoic acid (ZINCKE and COOKSEY), 1890, A., 785.
- β - and γ -Chloropropylbenzamides (GABRIEL and HEYMANN), 1890, A., 1268; (GABRIEL and ELFELDT), 1892, A., 213.
- Chloropropylbenzene. See Chloro-*n*-cumene.
- tri*Chloropropyleneoxidecarboxylamide (LEVY, WITTE and CURCHOD), 1890, A., 234.
- Chloropropylenes. See Propylenes.
- Chloropropylenic oxide. See Epichlorhydrin.
- Chloro*isopropyl*ic benzoate, preparation of (MORLEY and GREEN), 1885, T., 135.
- 2'-Chloro-2-*isopropyl*quinoline (WIDMANN), 1886, A., 465.
- Chloropyrenepicric acid (GOLDSCHMIEDT and WEGSCHEIDER), 1883, A., 1001.
- Chloropyridine. See Pyridine.
- Chloropyridine- α -carboxylic acid [m.p. 189°] (*chloropicolinic acid*) (SEYFFERTH), 1887, A., 157.
- Chloropyridine- α -carboxylic acids, *mono*- and *di*- (OST), 1883, A., 794.
- Chloropyridine- β -carboxylic acid (*chloronicotinic acid*) (V. PECHMANN and WELSH), 1885, T., 151.
- di*Chloropyridinecarboxylic acid [$\text{Cl}_2 : \text{COOH} = 1 : 6 : 4$] ? (BEHRMANN and v. HOFMANN), 1885, A., 139.
- di*Chloropyridine- β -carboxylic acid (SEYFFERTH), 1887, A., 158.
- 2,6:*di*Chloropyridine-3,5-dicarboxylic acid (GUTHZEIT and DRESSER), 1891, A., 940.
- Chloropyrimidine. See Chloro-*m*-diazine.
- tetra*Chloropyrocatechol ZINCKE, 1887, A., 808; (ZINCKE and KUSTER), 1888, A., 1278.
- per*Chloropyrocoll, action of phosphorus pentachloride on (CIAMICIAN and SILBER), 1884, A., 176.
- octochloride or perchloride of (CIAMICIAN and SILBER), 1884, A., 292.
- tri*Chloropyrogallol (WEBSTER), 1884, T., 205; (HANTZSCH and SCHNITER), 1887, A., 925.
- Chloropyromecenic acid (HILSEBEIN), 1885, A., 1203.
- tri*Chloropyromucamide (HILL and JACKSON), 1890, A., 601.
- Chloropyromucic acid. See Pyromucic acid.
- Chloropyrotritaric acid (DIETRICH and PAAL), 1887, A., 658.
- tetra*Chloropyroline, and synthesis of (CIAMICIAN and SILBER), 1884, A., 292, 293.
- di*Chloropyruvic acid (HANTZSCH), 1890, A., 132.
- β - δ -*di*Chloroquinazoline (ABT), 1888, A., 610.
- Chloroquinol (SCHEID), 1884, A., 429.
- m-di*Chloroquinol KEHRMANN and TIESLER, 1890, A., 242.
- tetra*Chloroquinol (SUTKOWSKI), 1887, A., 42.
- α -Chloro- β -quinolinecarboxylic acid (FRIEDLÄNDER and GÖHRING), 1884, A., 1020.
- Chloroquinolines and derivatives. See Quinolines.
- 1-Chloroquinoline-4-sulphonamide, -sulphonic acid and -sulphonic chloride (CLAUS and POSSELT), 1890, A., 522, 523.
- Chloroquinone. See Quinone.
- Chloroquinonechlorimide (KOLLREPP), 1886, A., 1019.
- tri*Chloroquinonechlorimide and *mono*- and *di*-chloroquinonedianilides (ANDRESEN), 1884, A., 431.
- di*Chloroquinonedichlorimide (MÖHLAU), 1886, A., 941.
- di*Chloroquinonedihydrodicarboxylic acid (HANTZSCH and ZECKENDORF), 1888, A., 278.
- tri*Chloroquinoneimide hydrochloride (ANDERSEN), 1884, A., 431.
- Chlor- α -orcinoldichroin (BRUNNER and CHITT), 1888, A., 1183.
- Chlororesorcinol. See Resorcinol.
- di*Chlororufgallol (WEBSTER and HUNT), 1889, A., 495.
- 5-Chlorosalicylic acid (SMITH and KNERR), 1886, A., 704.
- Chlorosalicylic acids, 3-, 4-, and 5- (VAENHOUT), 1887, A., 945.
- 2,4-*di*Chlorosalicylic acid (ZINCKE and WALBAUM), 1891, A., 711.

- 3:5-*d*-Chlorosalicylic acids (EINHORN and KETTER, 1886, A., 704; (HECHT), 1890, A., 1118.
- di*Chlorosilicon-di- β -naphthylidamide, -diphenylidamide, -2-ditolyldiamide and -dixilyldiamide (HARDEN), 1886, P., 251; 1887, T., 45, 40, 41.
- Chlorosis in plants (v. SACHS), 1887, A., 76.
- action of iron compounds in (LANDWEHR), 1888, A., 176.
- treatment of, with hydrochloric acid (WHITE), 1892, A., 1117.
- Chlorostannic acid (ENGEL), 1886, A., 984; (SEUBERT), 1887, A., 554.
- Chlorostearic acids, *mono*- and *di*- (PIOTROWSKI), 1890, A., 1396.
- Chlorostrychnine (SHENSTONE), 1885, T., 141; P., 5.
- tri*Chlorostrychnine (STOEHR), 1891, A., 86.
- Chlorosuberlic acid, action of potassium cyanide and potassium hydroxide on (BAUER), 1883, A., 970.
- Chlorosuccinic acid (ANSCHÜTZ and BENNETT), 1890, A., 363.
- Chlorosulphacetic acid (ANDREASCH), 1886, A., 786.
- Chlorosulphonic acid, new mode of formation of (BILLITZ and HEUMANN), 1883, A., 710.
- di*Chlorosulphopyromucic acid (HILL and JACKSON), 1890, A., 601.
- Chloroterebic acid, and some of its salts (ROSER), 1884, A., 460.
- p-di*Chloroterephthalamide (LEVY and CURCHOD), 1889, A., 1179.
- Chloroterephthalic acid (FILETI and CROSA), 1889, A., 496.
- di*Chloroterephthalic acid (LEVY and ANDREOCCHI), 1888, A., 841, 1091.
- p-di*Chloroterephthalic chloride (LEVY and CURCHOD), 1889, A., 1179.
- tri*Chlorotetraketohexamethylene hydrate (LANDOLT), 1892, A., 835.
- tetra*Chlorotetraketohexamethylene (NEF), 1890, A., 1271; (LANDOLT), 1892, A., 836.
- tetra*Chlorotetra-methoxy- and -ethoxyquinhydrones (KEHRMANN), 1891, A., 905.
- Chlorotetramine-chromic and -cobalt salts (JÖRGENSEN), 1890, A., 1213, 1214.
- di*Chlorotetrapyridinerhodium hydrochloride (JÖRGENSEN), 1889, A., 352.
- μ -Chlorothiazole (SCHATZMANN), 1891, A., 745.
- Chlorothiophen (WEITZ), 1884, A., 1130.
- tri*Chlorothiophen, and its derivatives (ROSENBERG), 1886, A., 534.
- tetra*Chlorothiophen *tetrachloride* (WILLGERODT), 1886, A., 339.
- Chlorothiophenols, *o*-, *m*-, and *p*- (DACOMO), 1892, A., 308.
- tri*Chlorothiophensulphonic anhydride (ROSENBERG), 1886, A., 534.
- α -Chlorothymoquinol (SCHNITER), 1887, A., 720.
- Chlorothymoquinones, *o*- and *m*- (SCHNITER), 1887, A., 720; (MAZZARA), 1890, A., 753.
- Chlorotiglamide and chlorotiglic acids (OTTO and HORST), 1890, A., 958.
- Chlorotiglic acid (OTTO and BECKURTS), 1885, A., 755; (ISBERT), 1886, A., 1010.
- action of potash on (FRIEDRICH), 1883, A., 969.
- ω -Chloro-*m*-toluamide (REINGLASS), 1891, A., 1344.
- ω Chloro-*p*-toluamide (MELLINGHOFF), 1890, A., 239.
- Chlorotoluene. See Toluene.
- penta*Chlorotoluene (SEELIG), 1885, A., 770.
- o*-Chlorotoluene-*p*-sulphonamide (PAYSAN), 1884, A., 72.
- p*-Chlorotoluene-*o*-sulphonamide (HEFFTER), 1884, A., 73.
- Chlorotoluenesulphonic acid. See Toluenesulphonic acid.
- Chlorotoluic acid. See Toluic acid.
- Chlorotoluidine. See Toluidine.
- tri*Chlorotoluquinol (CLAUS and RIEMANN), 1883, A., 1112.
- Chlorotoluquinone [4- or 3-] (CLAUS and SCHWEITZER), 1886, A., 614; (SCHNITER), 1887, A., 1036.
- tri*Chlorotoluquinone (CLAUS and RIEMANN), 1883, A., 1112.
- Chloro-*p*-tolyl methyl ether. See Chloro-*p*-methoxytoluene.
- o*-Chloro-*m*-tolyl and *m*-chloro-*o*-tolyl methyl ketones (CLAUS), 1891, A., 911.
- p*-Chloro-*m*-tolyl methyl ketone and ketoxime (CLAUS), 1892, A., 1201.
- tri*Chloro-*o*-tolylacetamide (CLOËZ), 1887, A., 1098.
- di*Chlorotolylbenzoic acid (LE ROYER), 1887, A., 832.
- di-o*-Chloro-*m*-tolylcarbamide (KOCK), 1887, A., 810.
- tri*Chlorotolylenediamines, α - and β - (SEELIG), 1885, A., 770.
- di*Chloro-*o*-tolyllic phosphate (STUART), 1888, T., 403; P., 24.
- Chloro-*p*-tolylmethylsulphones, *mono*- and *di*- (OTTO), 1890, A., 380, 381.
- 1'-Chloro-3'-*m*-tolylisquinoline (HEILMANN), 1890, A., 625; 1891, A., 202.

- 1'-Chloro-3'-*p*-tolylisoquinoline (RUHEMANN), 1892, A., 474.
- di*-*o*-Chloro-*m*-tolylthiocarbamide (KOCK), 1887, A., 810.
- di*Chlorotriisobutylene-dichloride (MARBOT and GENTH), 1884, A., 843.
- Chlorotriethylallylammonium chlorides, α - and β - REBOUL, 1883, A., 307.
- hexa*Chlorotriketohexamethylene (ZINCKE and KEGEL), 1889, A., 967.
- tri*Chlorotriketopentamethylene (HANTZSCH), 1888, A., 1190; (LANDOLT), 1892, A., 835.
- tri*Chlorotriketovaleric acid (HANTZSCH), 1888, A., 1192.
- Chlorotrimethylene and its derivatives. See Trimethylene.
- hexa*Chlorotrimethylenetrissulphone (CAMPS), 1892, A., 592.
- 4'-Chloro-1:3:2'-trimethylquinoline (CONRAD and LIMPACH), 1888, A., 503.
- Chlorotrimethyluracil (HAGEN), 1888, A., 582.
- Chlorotriphenylfurfuran, reduction of (JAPP and KLINGEMANN), 1889, P., 136; 1890, T., 674.
- tri*Chlorotriphenylrosanilines (HERMANN and HEIDBERG), 1886, A., 943.
- Chlorovalerolactone (WOLFF), 1885, A., 1124.
- di*Chloro-*o*-vinylbenzoic acid (ZINCKE and FRÖHLICH), 1887, A., 955; (ZINCKE), 1888, A., 159.
- tri*Chloro-*o*-vinylbenzoic acid (ZINCKE and FRÖHLICH), 1887, A., 955; (ZINCKE), 1888, A., 490.
- o*-*di*Chlorovinylbenzoylcarboxylic acid (ZINCKE and KEGEL), 1889, A., 270.
- o*-*tri*Chlorovinylbenzoylcarboxylic acid (ZINCKE), 1888, A., 490.
- o*-*di*Chloro- and *tri*chloro-vinyl-*di*-*a*-chlorophenylacetic acids (ZINCKE and KEGEL), 1889, A., 270.
- Chloroxalamyline. See Chlorobutylglyoxaline.
- Chloroxaethyline. See Chloro-5-methyl-1-ethylglyoxaline.
- p*-*di*Chloro-*p*-oximidoquinone (KEHRMANN), 1889, A., 244.
- Chloroxyadipic acid, lactone of (RUHEMANN), 1890, T., 940.
- m*-*di*Chloroxyazobenzene (SCHULTZ), 1884, A., 903.
- Chloroxybenzene, derivatives of (BENEDIKT), 1883, A., 984.
- 1'-Chlor-2'-oxy-4'-benzylisoquinoline (EICHELBAUM), 1888, A., 1301.
- Chloroxybutane (ZIKES), 1885, A., 1046.
- Chloroxyphenylchlorobenzene (BENEDIKT and V. SCHMIDT), 1883, A., 1119.
- di*Chloroxydichloro-*di*bromodiphenoquinone (BENEDIKT), 1883, A., 984.
- di*Chloroxydimethylpurin FISCHER, 1884, A., 997.
- Chloroxylene. See Xylene.
- 5-Chloro-*o*-xylidine [1:2:4] (CLAUS), 1892, A., 1202.
- 2-Chloro-*p*-xylidine [1:4:5] (KLUGE), 1885, A., 1208.
- 4:6-*di*Chloro-*m*-1:3-xylo-2:5-quinol and -quinone (CLAUS and RUNSCHKE), 1890, A., 1247.
- 4:5-*di*Chloro-*o*-xylo-3:6-quinol and -quinone (CLAUS, RAUS, HERFELDT and BERKEFELD), 1891, A., 1201.
- 3-Chloro-1:2-xylyl methyl 6(?) -ketone and its derivatives (CLAUS), 1892, A., 1202.
- 4-Chloro-1:2-xylyl methyl 5-ketone and derivatives (CLAUS), 1891, A., 912; 1892, A., 1201.
- Chloroxylphenylphthalimide (STRASSMANN), 1888, A., 475.
- tetra*Chloroxyzylic oxide (GRAEBE), 1887, A., 832.
- di*Chloroxymethyluracil (BEHREND), 1887, A., 129.
- Chloro-2'-oxyquinoline. See Chlorocarbostyryl.
- Chloroxyisoquinoline (GABRIEL), 1887, A., 62.
- "Chlorozon" (LUNGE and LANDOLT), 1886, A., 399.
- Chocolate (BOUSSINGAULT), 1884, A., 202. detection of foreign starches in (HARTWICH), 1889, A., 192.
- Cholamide (PELLIZZARI), 1889, A., 286.
- Cholanic acid and its ethyl and methyl salts (LATSCHINOFF), 1886, A., 566.
- iso*Cholanic acid (LATSCHINOFF), 1886, A., 817.
- Choleic acid (LATSCHINOFF), 1886, A., 270; 1887, A., 682, 683.
- Cholera (RAMON DE LUNA), 1884, A., 349. changes in the chemical composition of certain secretions during (POUCHET), 1885, A., 576. formation of ptomaines in (VILLIERS), 1885, A., 404. supposed poisons of OLIVIERI, 1886, A., 1049. transmission of, by drinking water (ANON.), 1884, A., 1081.
- Cholesterin (*Cholesterol*) (RAYMAN), 1887, A., 926; (OBERMÜLLER), 1891, A., 298. appendix to Schulze and Barbieri's paper on (SCHULZE), 1883, A., 586. in the carrot (ARNAUD), 1886, A., 830. in melon seeds (FORTI), 1891, A., 357. in plants (SCHULZE), 1890, A., 1457.

- Cholesterin** (*cholesterol*) in red blood corpuscles (MANASSE), 1890, A., 1017.
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*iso***Cholesterin** (SCHULZE), 1883, A., 586.
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- (yellow) from potassium nitrophenol-*p*-sulphonate (BEYER and KEGEL), 1885, A., 269.
- from pyridine methiodides and ethiodides (OECHSNER DE CONINCK), 1885, A., 272.
- from α -pyrocresole (BOTT and MILLER), 1888, P., 110; 1889, T., 54.
- from the quinoline bases (SPALTEHOLZ), 1885, A., 400; (OECHSNER DE CONINCK), 1886, A., 82.

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Coal-tar and other artificially prepared colouring matters in general:—

- from quinoline and pyridine bases (JACOBSEN), 1884, A., 798, 944.
- from tetrahydroquinoline (LELLMANN and BOYE), 1890, A., 1005.
- from tetrazostilbene (BENDER and SCHULTZ), 1887, A., 268.
- thiazine, production of, by electrolysis (EWER and PICK), 1886, A., 187.
- from thiophen (MEYER), 1884, A., 586.
- from triphenylmethane derivatives (RENOUF), 1883, A., 981.

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- from the cones of *Abies concolor* (MACCHIATI), 1890, A., 641.
- in *Agaricus ruber* (PHIPSON), 1883, A., 100.
- of chlorophyll (BORODIN), 1884, A., 910; (SACHSSE), 1885, A., 670; (HANSEN), 1888, A., 967; 1890, A., 171; (IMMENDORFF), 1890, A., 641.
- from cotton-seed oil (LONGMORE), 1885, A., 108.
- of currants, red and black (KEIM), 1891, A., 1539.
- from *Diaptomus* analogous to carotene (BLANCHARD), 1890, A., 640.
- of *Drosera Whittakerii* (RENNIE), 1887, T., 371; P., 36.
- of ebony wood (BÉLOHOUÉK), 1885, A., 396.
- of ergot (PALM), 1884, A., 376.
- of fungi (ZOPF), 1889, A., 919.
- of fustic wood (SCHMID), 1886, A., 894.
- of grapes (MAUMENÉ), 1883, A., 215.
- of leaves (ARNAUD), 1885, A., 670.
- from oakbark (ETTI), 1883, A., 995; (BÖTTINGER), 1884, A., 321.
- of *Peziza aurantia* and *P. convexula* (ROSSOL), 1884, A., 847.
- (red) of the Phanerogams, relations of, to the migration of starch (PICK), 1884, A., 1402.
- (yellow) from poplar wood (ANON.), 1886, A., 558.
- of *Purpura lapillus* (LETELLIER), 1889, A., 1207; 1890, A., 1452.
- from seaweed (NETTLEFOLD), 1888, A., 1313.
- from the tannins (WITT), 1886, A., 403.

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- Azo-colours**, benzidine, colouring properties of (MÖHLAU), 1886, A., 947.
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- Azo-resorcinol** and **azo-resorufin** (BRUNNER and CHUIT), 1884, A., 1333.
- Azulene** (HOCK), 1884, A., 82.
- Azylines** (LIPPMANN and FLEISSNER), 1883, A., 55, 184, 868, 1100; 1884, A., 178, 179; (NÖLTING), 1885, A., 895.
- Benzaldehyde-green**, preparation of some dyes from (ANON.), 1885, A., 311.
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- Benzaldehyde-greens**, manufacture of (MÜHLHÄUSER), 1887, A., 579.
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- "Canarin-yellow"** (SCHMID), 1884, A., 797; (ANON.), 1884, A., 1449; (GOPPELSROEDER), 1885, A., 107; (MILLER), 1885, A., 365; 1886, A., 186.
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- Ethyl-orange** (BERNHUSEN and GOSKE), 1887, A., 666.
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- Eurhodole** (WITT), 1886, T., 397; A., 473; (ZINCKE), 1892, A., 859.
- Gallocyanin** (PABST), 1883, A., 70; (KOECHLIN), 1883, A., 796; (NIETZKI and OTTO), 1888, A., 949.
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- ψ -**Cuminic acid**, *diamido*- (NEF), 1888, T., 433.
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- ψ -**Cumylenediamine** (EDLER), 1885, A., 772; (NÖLTING and BAUMANN), 1885, A., 893.
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- ψ -**Cumylic cyanate** and **cyanurate** (FRENTZEL), 1889, A., 241.
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- ψ -**Cumyloxamic acid**, and inner anhydride of (MAUTHNER and SUDA), 1889, A., 140.
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- ψ -**Cumylphthalide** (GRESLY), 1886, A., 1029.
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- Diacetyl-*p*-amidophenol**, 3-nitro- (HÄHLE), 1891, A., 430.
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- αα'*-Diacetylpentane**, action of reducing agents on (KIPPING and PERKIN), 1891, T., 214; P., 24.
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- Dianildicyandiamide** (PELLIZZARI and TIVOLI), 1892, A., 1323.
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- Dianilidodimethenyl/*u*-amidoresorcinol** (JACOBSON and SCHENCKE), 1890, A., 248.
- 3:6-Dianilido-2-ethoxy-1:4-quinone**, 5-chloro- (KEHRMANN), 1891, A., 903.
- Dianilidohydroxybenzene** (MINUNNI), 1891, A., 191.
- Dianilidomethylbromacetoacetic acid** (REISSERT), 1890, A., 642.
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- 2:2'-Dianilidonaphthalene** (CLAUSIUS), 1890, A., 629.
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- p*-Dianilido-*di*-*m*-nitrobenzophenone** (SCHÖPFF), 1892, A., 336.
- Dianilidophenylquinoneimide**, chloro- (ANDRESEN), 1884, A., 431.
- Dianilido-*o*-phosphoric acid** (MICHAELIS and v. SODEN), 1885, A., 1134.
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- Dibenzenylpiperidine** (RUGHEIMER),
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- Dibenzocarbamide** (HOLLEMAN), 1891, A., 65, 446.
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- Dibenzodicinnylenediamine** (JAPP and WYNNE), 1886, T., 469.
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- Dibenzoethylenephenyldiamine** (NEWMAN), 1891, A., 1207.
- s*-Dibenzohydrazine** (CURTIUS), 1891, A., 56.
- Dibenzomethylenediamine** (*hipparaffin*) (KRAUT and SCHWARTZ), 1884, A., 838.
- Dibenzomethylene glycol** (DE NEUFVILLE and V. PECHMANN), 1891, A., 319.
- Dibenzomethylhydrazine** (V. BRÜNING), 1890, A., 23.
- Dibenzo- $\alpha\beta$ -naphthylenediamine** (HINSBERG and V. UDRÁNSZKY), 1890, A., 370.
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- Dibenzoylamylenenitrolamine** (WALLACH and WAHL), 1891, A., 1005.
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- Dibenzoylbromocarbinylic acetate** (DE NEUFVILLE and V. PECHMANN), 1891, A., 318.
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- Dibenzoyldaphnetin** (V. PECHMANN), 1884, A., 1174.
- Dibenzoyldiacetylene** (FISCHER and BÜLOW), 1885, A., 1237.
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- Dibenzoylethane** (CULMANN), 1890, A., 1269.
- Dibenzoylglutazine** (V. PECHMANN), 1888, A., 68.
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- Dibenzoylhydroxytolenylamidoxime** (*dibenzoylsalicynylamidoxime*) (SPILKER), 1890, A., 143.

- Dibenzoyl-*o*-hydroxytolenylamidoxime** (*dibenzoyl-*o*-homosalicylanylamidoxime*) (PASCHEN), 1892, A., 320.
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- Dibenzoylmesitylene** (LOUISE), 1884, A., 904.
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- Dibenzoylmethylic bromide** (V. PECHMANN), 1889, A., 712; (DE NEUFVILLE and V. PECHMANN), 1891, A., 318.
- Dibenzoyldinitro-*m*-hydroxyphenyl-*p*-tolylamine** (HATSCHKE and ZEGA), 1886, A., 456.
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- Dibenzoylpentanedioxime** (KIPPING and PERKIN), 1889, T., 349.
- 2:4-Dibenzoyl-1-phenyl-3-5-pyrazolidone** (MICHAELIS and BURMEISTER), 1892, A., 1005.
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- Dibenzoylphloroglucinols**, isomeric (SKRAUP), 1889, A., 1152.
- Dibenzoylpyridine** (RÜGHEIMER), 1892, A., 1365.
- Dibenzoylquinhydrone** (KLINGER and STANDKE), 1891, A., 900.
- Dibenzoylresorcinols**, *mono-* and *tri-*nitro- (ERRERA), 1886, A., 50, 51.
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- αβ*-Dibenzoylstyrene** (*anhydrazetophenonebenzil*) (JAPP and BURTON), 1887, T., 429; P. 32; (JAPP and KLINGEMANN), 1889, P., 136, 139; 1890, T., 662.
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- Dibenzylacetoneitrile** (SCHNEIDEWIND), 1888, A., 705.
- Dibenzylacetoacetic acid** (FITTIG and CHRIST), 1892, A., 963.
- Dibenzylacetone and dibenzylacetone-dicarboxylic acid** (DÜNSCHMANN and V. PECHMANN), 1891, A., 674.
- Dibenzylacetoxime** (RATTNER), 1888, A., 704.
- Dibenzylalsorbite** (MEUNIER), 1890, A., 731.
- Dibenzylamarine** and its iodides (CLAUS), 1883, A., 203.
- Dibenzylamidoinamine** (MELDOLA and COSTE), 1889, T., 598.
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- Dibenzylamidodisulphonic acid** (SCHMIDT), 1892, A., 476.
- Dibenzylamine** and its derivatives (WALDER), 1886, A., 796; 1887, A., 246.
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- Dibenzylaniline** and its derivatives (MATZUDAIRA), 1887, A., 812.
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- Dibenzylanthracene hydride** and **dibenzylanthrone** (HALLGARTEN), 1888, A., 1202.
- Dibenzylarsine trichloride** (MICHAELIS and PAETOW), 1885, A., 526.
- Dibenzylarsinic acid** (MICHAELIS and PAETOW), 1885, A., 527.
- as-Dibenzylazine** (CURTIUS and THUN), 1891, A., 1357.
- Dibenzylbenzene**, *m*-dinitro- (BECKER), 1883, A., 203.
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- Dibenzylbromobenzenediazonium chloride** (BEHREND and LEUCHS), 1889, A., 502.
- Dibenzylisobutylcarbamide** (HAMMERICH), 1892, A., 1083.
- Dibenzylcarbamie chloride** (HAMMERICH), 1892, A., 1083.
- Dibenzylcarbamide**, *p*-dinitro- (HAFNER), 1889, A., 982.
- Dibenzylcarbinol** (v. BOGDANOWSKA), 1892, A., 851; (NOYES), 1892, A., 1094.
- Dibenzylcarbinyllamine** (NOYES), 1892, A., 1093.
- Dibenzylcarbinyllaminodibenzylcarbinaminethiocarbamate** (NOYES), 1892, A., 1094.
- Dibenzyl-*o*-carboxylic acid**. See **Diphenylethane-*o*-carboxylic acid**.
- Dibenzylcyanocarbamide argentocyanide** (HAMMERICH), 1892, A., 1084.
- Dibenzyl-di-*o*-carboxylic acid**. See **Diphenylethanedii-*o*-carboxylic acid**.
- Dibenzyl-diethyl-diamidotriphenylmethane** (FRIEDLÄNDER), 1889, A., 606; (PHILIPS), 1889, A., 1158.
- Dibenzyl-diethylphosphonium chloride** (COLLIE), 1888, T., 724.
- Dibenzyl-dimethylthiocarbamides**, *o*- and *p*- (KRÖBER), 1890, A., 968.
- Dibenzyl-dimethylammonium chloride** (JACKSON and WING), 1887, A., 722.
- Dibenzyl-diisoquinoline** (KRAUSS), 1891, A., 86.
- Dibenzyl-ditolylcarbamide** (HAMMERICH), 1892, A., 1083.
- Dibenzylethylamine** (WALDER), 1887, A., 813; (KRAFT), 1891, A., 51.
- Dibenzylethylphosphine** (COLLIE), 1888, T., 725.
- Dibenzylglycollic acid** (*oxytolyllic acid*), products of the reduction and oxidation of (SPIEGEL), 1884, A., 841.
- Dibenzylglycosine** (JAPP and CLEMINSHAW), 1887, T., 555.
- α -Dibenzylhomo-*o*-phthalbenzylimide** (PULVERMACHER), 1887, A., 1112.
- α -Dibenzylhomo-*o*-phthalic anhydride**, and *o*-phthalimide (PULVERMACHER), 1887, A., 1111.
- Dibenzylhydrazine hydrochloride** (CURTIUS and JAY), 1889, A., 393.
- Dibenzylhydroxylamine** (SCHRAMM), 1884, A., 51; (BEHREND and LEUCHS), 1889, A., 704.
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- Dibenzylhydroxylamine**, nitro-, oxidation of (BEHREND and KÖNIG), 1892, A., 1456.
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- Dibenzyl sulphide**, platinum compounds (SÜNDAHL), 1889, A., 368.
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- Dibenzylideneacetone**. See **Distyryl ketone**.
- Dibenzylidene-diamidodiphenylamine** (MELDOLA and COSTE), 1889, T., 594.
- Dibenzylidene-*p*-diamidodiphenylmethane** (GRAM), 1892, A., 618.
- Dibenzylidene-2:6-dimethylpyridine** (*dibenzylidene-2:6-lutidine*) (SCHUSTER), 1892, A., 1361.
- Dibenzylidenediphenylene** (REULAND), 1890, A., 166.
- $\beta\delta$ -Dibenzylidenelevulinic acid** (*dibenzallevulinic acid*) (ERDMANN), 1890, A., 1129.
- Dibenzylidenenitrotolidine** (LOEWENHERZ), 1892, A., 852.
- Dibenzylidenepimelic acid** (*dibenzal-pimelic acid*) (PERKIN and PRENTICE), 1891, T., 850.
- Dibenzylidenepropylenediamine** (STRACHE), 1888, A., 1173.
- Dibenzylidenestilbenediamine** (GROSSMANN), 1889, A., 1191.
- Dibenzylidenedithioamide** and *dinitro*-derivative of (EPHRAIM), 1891, A., 831.

- Dibenzylidenethylenediamine** (MASON), 1887, A., 493.
- Dibenzylmalonic acid** (PERKIN), 1885, T., 821; (BISCHOFF and SIEBERT), 1887, A., 952; (BISCHOFF and v. KUHMBERG), 1890, A., 1134.
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- Dibenzylmethylamine, *m*-nitro-** (BORG-MANN), 1886, A., 56.
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- Dibenzylmethylenediamine (methylenedibenzylamine)** (KEMPF), 1890, A., 887.
- Dibenzylnitroquinol** (PELLIZZARI), 1884, A., 438.
- 1:4-Dibenzylloxybenzene** (COLSON), 1889, A., 1152.
- Dibenzylpentanetetra-carboxylic acid** (PERKIN and PRENTICE), 1891, T., 844.
- Dibenzyl-*p*-phenylenediacetonitrile** (RATTNER), 1888, A., 704.
- Dibenzylphosphine** (LETTS and BLAKE), 1890, A., 767.
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- Dibenzylphosphinic acid** (LETTS and BLAKE), 1890, A., 767.
- Dibenzylpimelic acid** (PERKIN and PRENTICE), 1891, T., 846.
- $\omega\omega'$ -Dibenzylpimelic acid**, dissociation constant of (WALKER), 1892, T., 702.
- Dibenzylpyridine** (RÜGHEIMER), 1892, A., 1364.
- Dibenzyl-pyrocatechol, -quinol and -resorcinol** (PELLIZZARI), 1884, A., 437, 438.
- Dibenzylsuccinamide** (WERNER), 1889, T., 631.
- Dibenzylsulphone-methane and -thio-benzylmethane** (LAVES), 1892, A., 612.
- Dibenzylsulphonephenylmethane** (LAVES), 1892, A., 613.
- Dibenzylthiocarbamide**, action of acetic anhydride on (WERNER), 1891, T., 406.
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- Dibenzylthioxamide** (WALLACH and REINHARDT), 1891, A., 1008.
- Dibornylamine** (WALLACH and GRIE-PENKERL), 1892, A., 1238.
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- Dibornylthiocarbamide** (WALLACH and GRIE-PENKERL), 1892, A., 1238.
- Dibrassidin** (REIMER and WILL), 1887, A., 233.
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- α -Dibromhydrin**, preparation of (ASCHAN), 1889, A., 31.
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- Diisobutenyl**, isomeric change in (FAWORSKY), 1891, A., 1331.
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- Diisobutyl**, complete chlorination of (HARTMANN), 1891, A., 811.
- Diisobutyl dichloroglycollate** (ANSCHÜTZ), 1890, A., 236.
- Dibutyl and diisobutyl ethers** (REBOUL), 1889, A., 477.
- Dibutyl ethers** (REBOUL), 1889, A., 366, 477.
- Diisobutylacetylene diisovalerate** (KLINGER and SCHMITZ), 1891, A., 891.
- Diisobutylallylamine** (PAAL and HEMPEL), 1892, A., 31.
- Diisobutylamine**, preparation of (MALBOT), 1887, A., 356.
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- Diisobutylamine salts** (MALBOT), 1887, A., 461.
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- Dibutylanilineazeyline** (LIPPMANN and FLEISSNER), 1883, A., 55, 185.
- tert*.-Dibutylbenzene** (SEŃKOWSKI), 1890, A., 1297.
- Diisobutylbismuthine bromide and hydroxide** (MARQUARDT), 1888, A., 1067.
- Diisobutylcyanamide** (BERG), 1892, A., 1173.
- Diisobutylene**, heat of combustion of (MALBOT), 1890, A., 320.
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- Diisobutylglycollic acid** (KLINGER and SCHMITZ), 1891, A., 891.
- Diisobutylglyoxaline (acetalisobutylisocyaniline)** (RADZISZEWSKI and SZUL), 1884, A., 986.
- Diisobutylhexinene diketone (diisobutyron)** (BRÜGGEMANN), 1888, A., 1176.
- Diisobutylketine** (LANG), 1885, A., 963.

- Dibutylacetohydrophenanthroline** (SCHIFF and VANNI), 1890, A., 138.
- Diisobutyloxamic acid**, calcium salt of (MALBOT), 1887, A., 357.
- Diisobutyloxamide** (MALBOT), 1887, A., 357.
- Diisobutylpimelic acid** (PERKIN and PRENTICE), 1891, T., 843.
- Diisobutylquinol**, and its chloro-, bromo-, and nitro-derivatives (SCHUBERT), 1883, A., 60.
- Diisobutylsulphone-dimethylmethane and -methane** (STUFFER), 1891, A., 180, 181.
- Dibutyramide**, γ -dithio- (GABRIEL), 1890, A., 1221.
- Dibutyric acid**, α -thio- (LOVÉN), 1886, A., 333.
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- Diisobutyric acid**, thio- (LOVÉN), 1886, A., 333.
- Dibutyronitrile**, γ -thio- (GABRIEL), 1890, A., 1221.
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- Di γ** (BRAUNER), 1883, T., 281, 285.
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- Dicampholylcarbamide** (ERRERA), 1892, A., 1345.
- Dicapronamidinebiuret** (PINNER), 1891, A., 60.
- Dicaprylamine**. See Diisooctylamine.
- Dicarbanilido- α -, - β - and - γ -benzildioximes** (GOLDSCHMIDT), 1890, A., 252, 253.
- Dicarbanilidohydrazobenzene** (GOLDSCHMIDT and ROSELL), 1890, A., 614.
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- Dicarbodecahexanic acid** (BROWN and WALKER), 1891, A., 1193.
- n-Dicarbododecanic acid** (BROWN and WALKER), 1891, A., 1192.
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- Dicarbonyl-group**, condensations of compounds which contain, with aldehydes and ammonia (JAPP), 1883, T., 197.
- Dicarbonyltriimidobenzene** (JENTZSCH), 1889, A., 46.
- m-Dicarboxybenzyl oxide** (REINGLASS), 1891, A., 1345.
- Dicarboxylglutaconic acid** (RUHEMANN and MORRELL), 1892, T., 791; P., 143.
- Dicarboxylglutaric acid** (*propanetetracarboxylic acid*) (PERKIN), 1886, A., 691; (KLEBER), 1888, A., 1057.
- Dicarboxylic acids**, new synthesis of, from monocarboxylic acids (SEIFERT), 1885, A., 983.
- $\beta\gamma$ -Dicarboxy- γ -valerolactone** (RACH), 1886, A., 1012.
- Dicarvacrylamine** (LLOYD), 1887, A., 721.
- Dicetyl**, $C_{32}H_{66}$ (*dolricontane*) (LEBEDEFF), 1885, A., 736.
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- Dichloral phosphine** and its derivatives (DE GIRARD), 1886, A., 684.
- Dichlorhydrin**, action of sodium on (TORNÖE), 1891, A., 1442.
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- β -Dichlorhydrin m-hydroxybenzoate** (GÖTTIG), 1891, A., 1482.
- iso- β -Dichlorhydrin m-hydroxybenzoate** (GÖTTIG), 1892, A., 471.
- Dichloroformberberine** (GAZE), 1891, A., 332.
- Dichroins** (BRUNNER and CHUIT), 1888, A., 363, 1182.
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- Dichrysyl-carbamide and -thiocarbamide** (ABEGG), 1891, A., 730, 731.
- Dicinchonine** (HESSE), 1885, A., 675.
- Diapocinchonine** (JUNGFLEISCH and LÉGER), 1892, A., 1253.
- Dicinene** (HELL and STÜRCKE), 1884, A., 1363.
- Dicinnamic acid**, dithio- (BONDZYŃSKI), 1887, A., 1109.
- Dicinnamoylphenylazimide**, imide of (RUHEMANN), 1892, T., 283.
- Di- ψ -cinnamoylpyrrole** (CIAMICIAN and DENNSTEDT), 1885, A., 379.
- Dicinnamoyltolylenediamine** (BISTRZYCKI and ULFFERS), 1890, A., 1115.
- Dickinsonite** from Branchville (BRUSH and DANA), 1890, A., 1072.
- Dicodethine** (*ethylenedimorphine*) (GRIMAUD), 1883, A., 359.
- Dicoumarin** (FITTIG), 1886, A., 47; 1890, A., 584.
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- Dicresol** (HELLE), 1892, A., 1467.
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- o-Dicresol** (GERBER), 1888, A., 484.
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- Dicresoldicarboxylic acid** (DENINGER), 1888, A., 838.
- Dicresoldisulphonic acid** (HELLE), 1892, A., 1467.
- Diisocrotyl** (*octinene*), and its derivatives (PRZYBYTEK), 1889, A., 362.
- Di- ψ -cumenol** (*hexamethylphenol*) di-bromo- (AUWERS), 1885, A., 381; 1886, A., 144.
- Dicumylcarbamide** (GOLDSCHMIDT and GESSNER), 1889, A., 774.
- Dicumenyloxamide** (GOLDSCHMIDT and GESSNER), 1889, A., 773.
- Di- ψ -amidine** and its derivatives (AUWERS), 1886, A., 144.
- Dicuminalacetone**. See Dipropyl distyryl ketone.
- Di- ψ -cumyl ethylene diketone** (CLAUS and SCHLARB), 1887, A., 827.
- Di- ψ -cumylcarbamate** (FRENTZEL), 1889, A., 241.
- Di- ψ -cumylcarbamide** (ENGEL), 1885, A., 1216; (CONRAD and LIMPACH), 1888, A., 504.
- Di- ψ -cumylcarbamide** (GATTERMANN and CANTZLER), 1892, A., 832.
- Di- ψ -cumyldimethylmethane** (KRAEMER and SPILKER), 1891, A., 1463.
- Di- ψ -cumylmethenylamidine** (SENIER), 1885, T., 768.
- Di- ψ -cumyltetrazine** (RUHEMANN), 1890, T., 56.
- Di- ψ -cumylthiocarbamide** (ENGEL), 1885, A., 1216.
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- Dicyandiamidine**, preparation of (SMOLKA and FRIEDREICH), 1889, A., 951.
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- Dicyanic acid**, amido- (WUNDERLICH), 1886, A., 435.
- Di-*m-iso*-cymylcarbamide** and **dicumylthiocarbamide** (KELBE and WARTH), 1884, A., 47.
- Didehydrotrichlorodihydroxypiperazine** (BÉHAL and CHOAY), 1890, A., 231.
- Di-*p*-dimethylbenzoin** (STIERLIN), 1889, A., 513.
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- Didymium salts**, molecular refraction and dispersion of, in solution (GLADSTONE), 1891, T., 595.
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- Didymium molybdates** (COSSA), 1884, A., 821; 1886, A., 981.
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- Didymium and erbium earths**, separation of (KRÜSS), 1891, A., 1425.
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- Diethenyltetramidobenzenes** (NIETZKI and HAGENBACH), 1887, A., 476, 477; (NIETZKI and SCHMIDT), 1889, A., 974.
- Diethenyltetramidoditolyl**, *d*-nitro- (BANKIEWICZ), 1888, A., 1184.
- Diethoxyacetone** (GRIMAUX and LE-FÈVRE), 1889, A., 235.

- m*-Diethoxyacetophenone (GATTERMANN, EHRHARDT and MAISCH), 1890, A., 964.
- Diethoxydiamidodiphenylamine (NIETZKI and KAUFMANN), 1892, A., 314.
- 1:2-Diethoxyanthraquinone (*diethyl alizarin ether*) (HABERMANN), 1884, A., 1187.
- 1:4-Diethoxyanthraquinone (*diethyl quinizarin ether*) (LIEBERMANN and JELLINEK), 1888, A., 716.
- 1:2-Diethoxybenzene (*pyrocatechol diethyl ether*) (HERZIG and ZEISEL), 1889, A., 967.
- 1:3-Diethoxybenzene (*resorcinol diethyl ether*), preparation of (HERZIG and ZEISEL), 1890, A., 1404.
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- 1:3-Diethoxybenzene, amido- (WILL and PUKALL), 1887, A., 661.
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- 1:3-Diethoxybenzene-*o*- and -*p*-azo-1:3-dihydroxybenzenes (PUKALL), 1887, A., 662.
- Diethoxychloromethylpurin (FISCHER), 1884, A., 996.
- Diethoxydichloroquinols, α - and β - (KEHRMANN), 1890, A., 137.
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- Diethoxydihydroxybenzene (*tetrahydrobenzene diethyl ether*) (NIETZKI and RECHBERG), 1890, A., 968.
- Diethoxydimethylamidophenazine (NIETZKI and KAUFMANN), 1892, A., 315.
- Diethoxydimethyldiphenylquinone (NÖLTING and WERNER), 1891, A., 209.
- Diethoxydinaphthyls, α - and β - (*dinaphthyl diethyl ethers*) (OSTERMAYER and ROSENHEK), 1885, A., 171.
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- Diethoxydiphenyldiketopiperazine (BISCHOFF and NASTVOGEL), 1890, A., 1161.
- p*-Diethoxydiphenyl- α -diketopiperazine (BISCHOFF and NASTVOGEL), 1889, A., 1012.
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- p*-Diethoxydiphenylpiperazine (BISCHOFF), 1889, A., 1011.
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- 1:3:5-Diethoxyhydroxybenzene (*phloroglucinol diethyl ether*) (WILL and ALBRECHT), 1884, A., 1336.
- Diethoxyhydroxycaffeine (FISCHER), 1883, A., 355; (FISCHER and REESE), 1884, A., 466.
- Diethoxyhydroxyethyltheobromine (FISCHER), 1883, A., 357.
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- Diethoxyoxydimethylpurin (FISCHER), 1884, A., 997.
- Diethoxyphenylenediamine (*quinol diethyl ether*, *diamido*-) (NIETZKI and RECHBERG), 1890, A., 967.
- Diethoxypyridine and its salts (WEIDEL and BLAU), 1886, A., 76.
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- m*-Diethoxyxylene (KIPPING), 1888, T., 45.
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- Diethyl ketone (*propione*) (HAMONET), 1889, A., 235.
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- Diethylacetic anhydride and chloride (FREUND and HERMANN), 1890, A., 473.
- $\alpha\alpha'$ -Diethylacetonedicarboxylic acid (DÜNSCHMANN and v. PECHMANN), 1891, A., 674.
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- Diethylacetothienone and its oxime (MUHLERT), 1886, A., 535.
- β -Diethylacrylic acid (*heptenoic acid*) (REFORMATSKY), 1891, A., 170.
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- p*-Diethylamidobenzaldehyde (BOESSNECK), 1886, A., 458.
- Diethyl- α -amidobutyric acid (DUVILLIER), 1885, A., 750.
- Diethylamidocinnamic acid (FISCHER and KUZEL), 1881, A., 410.
- Diethylamido-*n*-hexoic acid (DUVILLIER), 1892, A., 291.
- Diethylamidohydroxyphenyltrichloroethane hydrochloride (BOESSNECK), 1886, A., 458.
- Diethylamidophenylarsine oxide (MICHAELIS and RABINERSON), 1892, A., 1321.
- Diethylamidophenylphosphoryl chloride (MICHAELIS and SCHENK), 1891, A., 436.
- Diethyl- α -amidopropionic acid (DUVILLIER), 1889, A., 1139.
- Diethylamidiquinoxazone (MÖHLAU), 1892, A., 888.
- Diethylamidosulphonic chloride (BEHREND), 1884, A., 286.
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- Diethylisoamylphosphine (COLLIE), 1888, T., 722.
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- Diethylaniline, preparation of (REINHARDT and STAEDEL), 1883, A., 578.
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- Diethylaniline, *m*-nitro- (GROLL), 1886, A., 347.
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- Diethylanilinealloxan (PELLIZZARI), 1888, A., 682.

- Diethylanilineazylene** (LIPPMANN and FLEISSNER), 1883, A., 55, 185.
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- Diethylanilinesulphonic acid**, β -amido- (BERNTHSEN), 1889, A., 776.
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- Diethylbenzamide**, nitro- (VAN ROMBURGH), 1886, A., 546.
- m*-Diethylbenzene** and its derivatives (VOSWINKEL), 1889, A., 38.
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- o*-Diethylbenzene** (VOSWINKEL), 1889, A., 388.
- p*-Diethylbenzene** and its derivatives (ASCHEBRANDT), 1883, A., 318; (VOSWINKEL), 1889, A., 493.
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- p*-Diethylbenzenesulphonamide** (VOSWINKEL), 1889, A., 493.
- o*-Diethylbenzenesulphonic acid**, derivatives of (VOSWINKEL), 1889, A., 388.
- p*-Diethylbenzenesulphonic acid** and its salts (ASCHEBRANDT), 1883, A., 318.
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- Diethylbenzidinephthalic acid** (SCHIFF and VANNI), 1890, A., 1298.
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- Diethylbismuthine bromide** (MARQUARDT), 1887, A., 803.
- Diethylbromaniline** (CLAUS and HOWITZ), 1884, A., 1006.
- Diethyl-bromodinitroresorcinol** and -tribromonitroresorcinol (JACKSON and WARREN), 1891, A., 1025, 1026.
- Diethylbromotoluene** (DAFERT), 1883, A., 1094.
- Diethylisobutylidenedisulphone** (FROMM), 1890, A., 56.
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- u*-Diethylcarbamide** (VAN DER ZANDE), 1889, A., 962.
- Diethyl- and isodiethyl-carbobenzonic acids** (ANSCHÜTZ and BERNIS), 1891, A., 913.
- Diethyltrichloracetamide** (CLOËZ), 1887, A., 1098.
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- Diethyldiguanide** (EMICH), 1891, A., 1180.
- Diethyldimethylenetrisulphone** (BAUMANN), 1890, A., 1093.
- Diethyldiphenyl** (ADAM), 1888, A., 959.
- Diethyldisulphisethionic acid**, sodium salt of (ENGELCKE), 1883, A., 972.
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- Diethyldisulphoneacetone** (OTTO and TRÖGER), 1891, A., 665.
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- Diethylenediamine cobalt chloride**, chloro- (JÖRGENSEN), 1889, A., 352.
- β -Diethylethylamine** (FREUND and HERRMANN), 1890, A., 474.

- Diethylethylenedisulphone** (OTTO and CASANOVA), 1888, A., 255.
- Diethylthylene- ψ -thiocarbamide** (NOAH), 1890, A., 1242.
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- u*-**Diethylformamide** (*formimido-diethylamide*), hydrochloride (PINNER), 1884, A., 724.
- Diethylglutaramidine**, platinochloride (PINNER), 1891, A., 62.
- Diethylglutaric acid** (GUTHZEIT and DRESSSEL), 1890, A., 878.
- Diethylglycerolphosphoric acids**, two isomeric (HUNDESHAGEN), 1884, A., 283.
- p*-**Diethylglyoxaline** (*acalethylpropyl-ine*), synthesis of (RADZISZEWSKI), 1883, A., 729.
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- a*-**Diethylhomo-*o*-phthalimide** (PULVERMACHER), 1887, A., 1111.
- Diethylhydroanthracene** (GOLDMANN), 1888, A., 715.
- Diethylhydroxypropylamine**, platinochloride (LIEBERMANN and PAAL), 1883, A., 910.
- Diethylic allophanyltartrate** (TRAUBE), 1889, A., 394.
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- p*-**dichloro-*a*-dimethylbenzo-*p*-difurfuran- β -dicarboxylate** (IKUTA), 1892, A., 609.
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- diethylethylenedibenzamate (SCHIFF and PARENTI), 1885, A., 266.
- dimethoxydimethylmalonate (KLEBER), 1888, A., 1057.
- dimethylfurfurandicarboxylate (KNORR), 1885, A., 248.
- dimethylsuccinate (BARNSTEIN), 1888, A., 135.
- Diethylic diphenylazimethylenedicarboxylate** (CURTIUS and LANG), 1892, A., 453.
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- furfurinedicarboxylate (BAHRMANN), 1883, A., 800.
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- hydrogen carboxybenzylmalonate (WISLICENUS), 1888, A., 150.
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- hydrophenyldimethylpyridinedicarboxylate (SCHIFF and PULITI), 1883, A., 1151.
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- oxaldiamidopropionate (SCHIFF), 1885, A., 760.
- phenyl-2:4-dimethylpyridinedicarboxylate (SCHIFF and PULITI), 1883, A., 1151.
- phenylthronate (SCHLOESSER), 1889, A., 595.
- quinone-*p*-difurfuran-*a*-dimethyl- β -dicarboxylate hydrochloride (IKUTA), 1892, A., 610.
- quinonehydrodicarboxylate and formula of (WEDEL), 1884, A., 834.
- quinonetetrahydridedicarboxylate (HERRMANN), 1883, A., 1084.
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- Diethylic sulphoxide, *diamido-*, picrate of (CROSS and BEVAN), 1892, A., 130.
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- Diethylidene-cinchonine and -cinchoxine (CLAUS), 1892, A., 1252.
- Diethylidenic *tetrakisulphide* (FASBENDER), 1887, A., 463.
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- Diethylketoxime (SCHOLL), 1888, A., 443.
- Diethylmaleic acid. See Xeronic acid.
- Diethylmalonic acid, potassium and sodium salts of (SCHUKOWSKI), 1889, A., 959.
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- Diethylmuscarinepyridine (LOCHERT), 1891, A., 82.
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- Diethylxetone and diethylxetone-carboxylic acid (FITTIG and DUBOIS), 1890, A., 869.
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- m*-Diethylphenol (VOSWINKEL), 1889, A., 39.
- p*-Diethylphenol (VOSWINKEL), 1889, A., 493.
- Diethyl-*m*-phenylenediamine (GROLL), 1886, A., 347.
- Diethyl-*p*-phenylenediamine (LIPPMANN and FLEISSNER), 1883, A., 869, 1100.
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- Diethylpiperazine (SCHMIDT and WICHMANN), 1892, A., 212.
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- Diethylisopropylidene *disulphide* (BAUMANN), 1887, A., 126.
- Diethylpropylcarbinol (SOKOLOFF), 1888, A., 1170.
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- Diethylpropylthiocarbamide picrate (NOAH), 1890, A., 1241.
- $\alpha\gamma$ -Diethylpyridine (LADENBURG), 1886, A., 159; 1887, A., 60.
- 1-Diethylpyrrole (CIAMICIAN and ZANETTI), 1889, A., 728; (ZANETTI), 1890, A., 908.
- Diethylquinol. See 1:4-Diethoxybenzene.
- Diethylquinoline (REHER), 1888, A., 66.
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- as*-Diethylsuccinic acid (BISCHOFF and MINTZ), 1890, A., 744.
- s*-Diethylsuccinic acids (HJELT), 1888, A., 254; (BISCHOFF and HJELT), 1888, A., 1057; (HELL), 1889, A., 377; (BITSCHICHIN and ZELINSKY), 1890, A., 740; (BISCHOFF and MINTZ), 1890, A., 743.
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- Diethylsulphamic acid and its barium salt (BEILSTEIN and WIEGAND), 1883, A., 971.
- Diethylsulphone, *diamido-* (GABRIEL), 1892, A., 131.
- Diethylsulphonechlorodimethylmethane (AUTENRIETH), 1891, A., 563.
- Diethylsulphonediethylmethane (BAUMANN and KAST), 1889, A., 1233; (FROMM), 1890, A., 56.
- Diethylsulphonediethylmethane (*isopropylidenediethylsulphone*; *sulphonol*) (BAUMANN), 1887, A., 123; (FROMM), 1890, A., 56; (STUFFER), 1891, A., 180.
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- Diethylsulphonediiodomethane (FROMM), 1890, A., 56.
- Diethylsulphonemethane (BAUMANN), 1887, A., 124; (FROMM), 1890, A., 56.
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- Diethylsulphonemethylethylmethane (BAUMANN and KAST), 1889, A., 1233.
- Diethylsulphonemethylpropylmethane (BAUMANN), 1887, A., 123.
- Diethylsulphonophenylsulphonemethane and its chloro- and bromo-derivatives (LAVES), 1892, A., 613.
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- Digitic acid** (KILIANI), 1891, A., 577.
- Digitin**, estimation and separation of, from digitalin and digitalein (PALM), 1884, A., 507.
- Digitogenic acid** (KILIANI), 1891, A., 577.
- Digitogenin** (KILIANI), 1890, A., 996; 1891, A., 576.
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- Digitonin** (KILIANI), 1892, A., 501.
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- Digluco-*o*-phenylenediamine** (GRIESS and HARROW), 1887, A., 930.
- Diglycerilmethylal** (HÜLAND), 1887, A., 905.
- Diglycidylpyrocatechol** (LINDEMANN), 1891, A., 1199.
- Diglycol compounds**, thio- (MEYER), 1887, A., 228.
- Diglycollanilic acid** (ANSCHÜTZ), 1891, A., 177.
- Diglycollic acid**, thio- (LOVÉN), 1885, A., 241.
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- Diglycolylmaleic acid** (PUM), 1888, A., 1059.
- Diguanide** (EMICH), 1883, A., 973; 1891, A., 1180.
- Diguanide**, preparation of (SMOLKA and FRIEDREICH), 1888, A., 830.
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- Diheptadecylcarbamide** (TURPIN), 1888, A., 1175.
- Diheptinene**, a (TILDEN), 1884, T., 419.
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- Dihexamethylenamine methyleniodide** (WOHL), 1886, A., 863.
- Dihexinene** (RENARD), 1887, A., 566.
- "Dihexolactone" and "dihexonic acid"** (FITTING and DUBOIS), 1890, A., 868.
- Dihexyl ketone** (KIPPING), 1890, T., 533.
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- ψ -Dihexyloxamide** (FREUND and HERRMANN), 1890, A., 474.
- Dihexylthiocarbamide** (FRENTZEL), 1883, A., 1075.
- o*-Dihomobenzenylazoxime** (STIEGLITZ), 1890, A., 256.
- p*-Dihomobenzenylazoxime** (SCHUBART), 1890, A., 48.
- Dihydrazidodiphenyldisulphonic acid** (LIMPRICHT), 1891, A., 930.
- Dihydrazidoditolylldisulphonic acid** (HELLE), 1892, A., 1467.
- Dihydrazidopimelic anhydride** (VOLHARD), 1892, A., 435.
- Dihydrazonepyruvic acid hydrazide** (MESSINGER and ENGELS), 1889, A., 36.
- Dihydrazophenine** (FISCHER and HEPP), 1887, A., 1106.
- Dihydrazopimelic anhydride** (VOLHARD), 1892, A., 435.
- Dihydriodocinchonine** (PUM), 1892, A., 514; (LIPPMANN and FLEISSNER), 1892, A., 639.
- Dihydrido-quinidine and -apoquinidine** (SCHUBERT and SKRAUP), 1892, A., 640.
- Dihydroacenaphthene dibromide** (BAMBERGER and LODTER), 1888, A., 604.
- Dihydroanthracene**, behaviour of, with carbonyl chloride (BEHLA), 1887, A., 594.
- Dihydroanthracenecarboxylic acid** (BÖRNSTEIN), 1884, A., 330.
- α -Dihydroanthracenecarboxylic acid** (GRAEBE and JUILLARD), 1888, A., 156.

- Dihydromesoanthramine** (GOLDMANN), 1890, A., 1426.
- Dihydroapiole** (CIAMICIAN and SILBER), 1890, A., 1294.
- Dihydro-arecaidine** and **-arecoline** (JAHNS), 1892, A., 739.
- Dihydrobenzaldehyde** and **phenylhydrazone** of (EICHENGRÜN and EINHORN), 1891, A., 67.
- Dihydrobenzamide** (HUTCHINSON), 1891, A., 561.
- Dihydrobenzene**, synthesis of (v. BAEYER), 1892, A., 1074.
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- Dihydrobenzoic acid** (EICHENGRÜN and EINHORN), 1891, A., 68; (HUTCHINSON), 1891, A., 562; (ASCHAN), 1891, A., 1482.
- Dihydrobenzoxime** (EICHENGRÜN and EINHORN), 1891, A., 67.
- $\Delta^{3,5}$ -Dihydrobenzylidimethylamine** (MERLING), 1892, A., 358.
- Dihydrocamphene**, derivatives of (TANRET), 1887, A., 676.
- Dihydrocarveol** and **dihydrocarvylamine** (WALLACH), 1892, A., 499.
- Dihydrocinchonine** (COMSTOCK and KOENIGS), 1884, A., 1384.
- Dihydrocinene** (HELL and RITTER), 1885, A., 172.
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- β -Dihydrocollidine**. See 4-Methyl-3-ethyl-dihydropyridine.
- Dihydrocoumaroxime** (TIEMANN), 1886, A., 880.
- Dihydrodiphenyl** (BAMBERGER and LODTER), 1888, A., 604.
- dibromide** and its **bromo-derivative** (BAMBERGER and LODTER), 1888, A., 604.
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- "Dihydrodiphenyldihydroxyantetrazine"** (PINNER), 1890, A., 70.
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- Dihydrofurfuran** (HENNINGER), 1884, A., 897.
- Dihydroopoharmine** (FISCHER), 1889, A., 731.
- Dihydroindoxyl**, **amido-**, derivatives of (BURMEISTER and MICHAELIS), 1891, A., 1068.
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- Dihydromeconic acid**, **chloro-** (HILSEBEIN), 1885, A., 1203.
- Dihydromethylfurfuran** (LIPP), 1889, A., 843.
- Dihydromethylquinoxaline**, derivatives of (LEUCKART and HERMANN), 1887, A., 383.
- Dihydromethylstilbazole** (BACHER), 1889, A., 162.
- Dihydronephthalene** (BAMBERGER and LODTER), 1887, A., 719.
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- Dihydrophenanthridine** and its derivatives (PICTET and ANKERSMIT), 1892, A., 197, 838.
- Dihydrophthalic acid** (v. BAEYER), 1890, A., 1278.
- trans- $\Delta^{3,5}$ -Dihydrophthalic acid** (v. BAEYER), 1892, A., 1214.
- Dihydrophthalic acid dibromide** and **dihydrobromide** (v. BAEYER), 1890, A., 1278.
- Dihydrophthalic acids**, $\Delta^{1,4}$ - and $\Delta^{2,4}$ - (v. BAEYER), 1892, A., 1216.
- Dihydrophthalic acids**, $\Delta^{4,6}$ - and *cis* $\Delta^{3,5}$ - (v. BAEYER), 1892, A., 1215.
- "Dihydropyranilpyroic acid"** and **"lactone"** of (REISSERT), 1888, A., 696.
- Dihydropyrrole** and derivatives of (CIAMICIAN and DENNSTEDT), 1883, A., 1142; (ANDERLINI), 1890, A., 65, 1430.
- Dihydroquinazolines** (PAAL and KRECKE), 1890, A., 1443; (GABRIEL and JANSEN), 1892, A., 219.
- Dihydro-santinic** (*dimethyldihydronaphthylpropionic*) and *-isosantinic acids* (GUCCI and GRASSI-CRISTALDI), 1892, A., 871.
- Dihydroshikimic acid** (ELJSMAN), 1891, A., 919.
- Dihydrosparteine** and its derivatives (ÄHRENS), 1887, A., 1056.
- Dihydro- α -stilbazole** (BAURATH), 1888, A., 608.
- Dihydrostrychnine** (LOEBISCH and SCHOOP), 1886, A., 815.
- Dihydroterephthalic acid** (v. BAEYER), 1887, A., 371; 1888, A., 1072.
- dibromide** and **dihydrobromide** (v. BAEYER), 1888, A., 1072, 1073.

- $\Delta^{1,5}$ -Dihydroterephthalic acid *di*bromide (V. BAAYER and HERB), 1890, A., 1131.
- Dihydroterephthalic acid, nitrile of (V. BAAYER), 1892, A., 834.
- p*-dichloro- (LEVY and ANDREOCCHI), 1888, A., 840, 1091.
- p*-dichloronitro- (LEVY and ANDREOCCHI), 1888, A., 1091.
- Dihydroterephthalic acids, isomeric, (V. BAAYER), 1889, A., 1176.
- Dihydroterephthalic acids, $\Delta^{1,4}$ and $\Delta^{1,5}$, thermochemistry of (STOHMANN and KLEBER), 1891, A., 376.
- Dihydrothenardite (MARKOWNIKOFF), 1888, A., 794.
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- o*-Dihydrotoluic acid, and its amide (HUTCHINSON), 1891, A., 562.
- Dihydroximidopropionic acids, primary and secondary (SÜDERBAUM), 1892, A., 815, 816.
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- 4:2:1-Dihydroxyacetophenone (*resacetophenone*) (V. PECHMANN and DUISBERG), 1884, A., 66; (MICHAEL and PALMER), 1886, A., 239.
- Dihydroxyacridine (ELIASBERG and FRIEDLÄNDER), 1892, A., 1108.
- Dihydroxyaldehydes, aromatic, nitrogenous derivatives of (MARCUS), 1892, A., 317.
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- Dihydroxyamidoanthraquinonesulphonic acid (LIFSCHÜTZ), 1884, A., 1189.
- Dihydroxyisoamylamine (RADZISZEWSKI and SCHRAMM), 1884, A., 1190.
- Dihydroxyisoamylphosphinic acid (VILLE), 1889, A., 1135.
- Dihydroxyamylpiperidine aurochloride (MARINO-ZUCO), 1892, A., 86.
- Dihydroxyanhydroecgonine (EINHORN and RASSOW), 1892, A., 1015.
- Dihydroxyanisole, dinitro- (NIETZKI and KURTENACKER), 1892, A., 596.
- Dihydroxyanthracene (*flavol*), from α -anthraquinonedisulphonic acid (SCHÜLER), 1883, A., 74.
- o*-Dihydroxyanthracoumarin (V. KOSTANECKI), 1888, A., 292.
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- m*-Dihydroxyanthraquinone (*xanthopurpurin*), synthesis of (NOAH), 1886, A., 475.
- 1:4-Dihydroxyanthraquinone (*quinizarin*) (LIEBERMANN), 1888, A., 716.
- 1:4'-Dihydroxyanthraquinone (*anthra-rufin*) (ROEMER), 1883, A., 737.
- 2:3-Dihydroxyanthraquinone (*hystazarin*) and its compounds (SCHOELLER), 1888, A., 1203; 1889, A., 719.
- Dihydroxyaurindicarboxylic acid (CARO), 1892, A., 1469.
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- 2:4-Dihydroxybenzaloxime (β -resorcyldialoxime) (MARCUS), 1892, A., 317.
- Dihydroxybenzamidopyrrolone (RÜGHEIMER), 1889, A., 1211.
- 2:4-Dihydroxybenzaldialoxime (β -resorcyldialdoxime) (MARCUS), 1892, A., 317.
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- 1:3-Dihydroxybenzene, tetranitro- (HENRIQUES), 1883, A., 327, 329.
- 1:3-Dihydroxybenzene. See Resorcinol.
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- Dihydroxybenzenes, action of dichloro-ether on (WISLIGENUS and SIEGFRIED), 1888, A., 374.
- benzylic ethers of (PELLIZZARI), 1884, A., 437.
- 2:4-Dihydroxybenzenylamidoxime (β -resorcenylamidoxime) (MARCUS), 1892, A., 317.
- Dihydroxybenzodiphenyldipyrzalone (BÖNIGER), 1889, A., 879.
- 3:5-Dihydroxybenzoic acid, action of chlorine on (ZINCKE and FÜCHS), A., 1461.
- 2:4-Dihydroxybenzoic acid (β -resorcylic acid), thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
- Dihydroxybenzoic acid, di- and tri-chloro- (ZINCKE and FÜCHS), 1892, A., 1461.
- Dihydroxybenzophenone (DALE and SCHORLEMMER) 1883, T., 187.
- o*-Dihydroxybenzophenone and its derivatives (GRAEBE and FEER), 1887, A., 152.
- o*:*p*-Dihydroxybenzophenone (*salicylphenol*), and its derivatives (MICHAEL), 1884, A., 311.
- p*-Dihydroxybenzophenone (KLINGER and STANDKE), 1891, A., 900.
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- Dihydroxybenzophenones**, α - and β -, and their compounds (STAEDEL), 1883, A., 991.
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- Di-*p*-hydroxybenzoyl-*p*-hydroxybenzoic acid** (KLEPL), 1884, A., 447.
- Dihydroxybenzoylphosphinic acid** (VILLE), 1890, A., 619.
- Dihydroxybenzylenephosphinic acid** (VILLE), 1889, A., 141.
- o*-Dihydroxybenzylidenediphenylene** (REULAND), 1890, A., 166.
- Di-*o*-hydroxybenzylidenethylenediamine** (MASON), 1888, A., 493.
- Dihydroxybutane**, *mono*- and *di*-chloro- (ZIKES), 1885, A., 1046.
- Dihydroxybutanedisulphonic acid** (PRZYBYTEK), 1888, A., 245.
- $\alpha\beta$ -Dihydroxybutyric acid** (*propylene-glycolcarboxylic acid*) (KOLBE), 1883, A., 574; (MELIKOFF), 1884, A., 1301.
- $\beta\gamma$ -Dihydroxybutyric acid** (FITTIG), 1892, A., 957.
- iso*Dihydroxybutyric acid** (? $\beta\gamma$ -*dihydroxybutyric acid*) (FITTIG and KOCHS), 1892, A., 958.
- 3':4'-Dihydroxycarbostyryl** (v. BAAYER and HOMOLKA), 1884, A., 79.
- Dihydroxy-*o*-carboxyphenylpropionic acid**, lactone of (ZINCKE), 1892, A., 720.
- Dihydroxychloral phosphine** (DE GIRARD), 1884, A., 1119.
- Dihydroxyperchloromethylcyanidine** (TSCHERVEN-IWANOFF), 1892, A., 1291.
- Dihydroxycinchonic acid** (*dihydroxyquinoline-4'-carboxylic acid*) (GOLD-SCHMIEDT), 1888, A., 302.
- Dihydroxycinnamic acid**. See Caffeic acid.
- o*-Dihydroxy-compounds**, reagent for (STAHL), 1892, A., 1133.
- Dihydroxycoumarin** (TIEMANN and WILL), 1883, A., 200.
- cro*-Dihydroxy- ψ -cumene** (HJELT and GADD), 1886, A., 615.
- Dihydroxydibenzylacetic acid** (PERKIN and STENHOUSE), 1891, T., 1002; P. 13.
- o*-Dihydroxydibenzylamine** (EMMERICH), 1888, A., 50.
- Dihydroxydiethylmethylamine** (KNORR), 1889, A., 1218.
- Dihydroxydiethoxybenzene** (NIETZKI and RECHBERG), 1890, A., 968.
- 2':4'-Dihydroxy-3':4'-dihydroquinoline** (*hydroxyhydrocarbostyryl*) (EINHORN), 1884, A., 1338.
- 2':4'-Dihydroxy-3':4'-dihydroquinoline** (*hydroxyhydrocarbostyryl*), 3-chloro- (EICHENGRÜN and EINHORN), 1890, A., 1128; 1891, A., 1100.
- Dihydroxydihydroquinolinelactone** (LIEBERMANN and KLEEMANN), 1887, A., 48.
- Dihydroxydiketo-pentamethylene and pentamethylenecarboxylic acid** (HANTZSCH), 1888, A., 132.
- Dihydroxydiketotetrahydronaphthalene** (ZINCKE), 1892, A., 859.
- Dihydroxydimethoxybenzene** (WILL), 1888, A., 458.
- Dihydroxydimethylanthraquinones**, isomeric (v. KOSTANECKI and NIEMENTOWSKI), 1885, A., 1240.
- Dihydroxydimethylbenzophenone** (SCHROETER), 1890, A., 899.
- Dihydroxydimethyleinnamic acids** (*dimethylumbellic acids*) (WILL), 1884, A., 68; (WILL and BECK), 1886, A., 880.
- Dihydroxydimethyldiphenylmethane** (DIANIN), 1889, A., 1187.
- Dihydroxydimethyldiquinoxaline** (NIETZKI and MÜLLER), 1889, A., 605.
- Dihydroxydimethylglutaric acid** (AUWERS and JACKSON), 1890, A., 1099; (ZELINSKY), 1892, A., 437.
- lactone and dilactone of (ZELINSKY), 1892, A., 436, 437.
- Dihydroxydimethylglutaric acids**, stereoisomerism of (ZELINSKY), 1892, A., 436.
- Dihydroxydimethylheptamethylene** (KIPPING and PERKIN), 1889, P., 145; 1891, T., 217.
- synthesis of (KIPPING and PERKIN), 1891, T., 214; P., 24.
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- condensation product of (KIPPING and PERKIN), 1891, T., 228.
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- Dihydroxydimethylpurin** (FISCHER), 1884, A., 997.
- Dihydroxydimethyltriphenylmethane** (SCHROETER), 1890, A., 898.
- Dihydroxydinaphthyl disulphide** (LANGE), 1888, A., 375.
- Dihydroxydinaphthylphenylmethane** (DOEBNER), 1890, A., 902.
- Dihydroxydiphenylamine** (SEYEWITZ), 1890, A., 369.

- Dihydroxydiphenylamine**, *dibromo-* (MÖHLAU), 1881, A., 594.
- o-p*-**Dihydroxydiphenylcarbinol** (MICHAEL), 1881, A., 311.
- p*-**Dihydroxydiphenyltrichlorethane**, *di-* and *tetra-nitro-* (ELBS and HOERMANN), 1889, A., 998.
- Dihydroxydiphenyldibenzylmethane** (V. BOGDANOWSKA), 1892, A., 851.
- Dihydroxydiphenyldimethyldiazobenzophenylmethane** (MAZZARA), 1885, A., 904.
- Dihydroxydiphenylic mono- and di-sulphides**. See *Hydroxyphenylic mono- and di-sulphides*.
- Dihydroxydiphenylic sulphoxide** (SCHALL and UHL), 1892, A., 1077.
- Dihydroxydiphenylpentane** (DIANIN), 1889, A., 1187.
- Dihydroxydipropyldiphenylcarbamidedicarboxylic acid** (WIDMAN), 1884, A., 1023.
- β -Dihydroxydiquinoline** (ROSER), 1884, A., 1372; (WEIDEL and GLÄSER), 1886, A., 950.
- Dihydroxydiquinoyl**. See *Rhodizonic acid*.
- Dihydroxydurylic acid** (NEF), 1886, A., 241; 1887, A., 255; 1888, T., 435.
- "**Dihydroxyethenylphenylenediamine**" (ASCHAN), 1886, A., 147.
- 3-Dihydroxy-2-ethoxyanthraquinone** from anthragallol (LIEBERMANN and JELLINEK), 1888, A., 716.
- p*-**Dihydroxyethoxyquinone**, chloro- (KEHRMANN), 1891, A., 904.
- m*-**Dihydroxyethoxyquinoxaline** (AUTENRIETH and HINSBERG), 1892, A., 160.
- p*-**Dihydroxyethoxyquinoxaline** (AUTENRIETH and HINSBERG), 1892, A., 734.
- Dihydroxyethylaniline** (KNORR), 1889, A., 1219.
- 3:4-Dihydroxy-1-ethylbenzene** (SEMPOTOWSKI), 1890, A., 55.
- Dihydroxyethylbenzene** (*styrolene alcohol*), hydrocarbon ($C_{16}H_{12}$) from (ZINCKE and BREUER), 1885, A., 269; (ZINCKE), 1887, A., 959.
- Dihydroxyethylpyridinecarboxylic acid** (*ethylconemannic acid*) (MENNEL), 1885, A., 1203.
- 2':4'-Dihydroxy-3'-ethylquinoline** (RÜGHEIMER and SCHRAMM), 1888, A., 502.
- Dihydroxyfluoran** (MEYER and HOFFMEYER), 1892, A., 970.
- Dihydroxyglutaric acids**, $\alpha\gamma$ - and $\beta\gamma$ - (KILIANI), 1886, A., 48.
- cis***trans-p-Dihydroxyhexamethylene** (V. BAEYER), 1892, A., 833.
- Dihydroxyhexane** (*heptylenic δ -glycol*) (LIPP), 1886, A., 219; (PERKIN), 1887, T., 722.
- Dihydroxyhexoic acid** [m.p. 152°] (LIEBEN and ZEISEL), 1883, A., 571.
- Dihydroxyhexoic acid lactone and salts** of (FITTIG and HILLERT), 1892, A., 959.
- iso***Dihydroxyhexoic acid lactone and salts** of (FITTIG and HILLERT), 1892, A., 959.
- o*-**Dihydroxyhydrobenzoin** and *diso-anhydride* of (TIEMANN), 1892, A., 168, 167.
- p*-**Dihydroxyisohydrobenzoin** (TIEMANN), 1886, A., 460.
- o*-**Dihydroxyhydrobenzoin**s, isomeric (TIEMANN), 1892, A., 167.
- Dihydroxyhydrolapachic acid** (HOOKER), 1891, A., 1239.
- Dihydroxyhydrolapachol** (HOOKER), 1892, T., 647.
- Dihydroxylamine barium and cadmium chlorides** (CRISMER), 1890, A., 559.
- zinc chloride (CRISMER), 1890, A., 558.
- m*-**Dihydro-xylene** (WALLACH), 1890, A., 1314.
- Dihydro-p-xylene**, synthesis of (V. BAEYER), 1892, A., 1182.
- Dihydroxymaleic acid**, the so-called (HENDRIXSON), 1890, A., 958.
- Dihydroxymesitylene** (*mesitylenic glycol*) (ROBINET and COLSON), 1883, A., 1095.
- 2':4'-Dihydroxy-p-methoxy-3':4'-dihydroquinoline** (EICHENGRÜN and EINHORN), 1891, A., 1098.
- Dihydroxymethylanthraquinone** (*chrysophanic acid*) (GRANDIS), 1892, A., 1354.
- reactions for distinguishing, from the santonin colouring matter in urine (HOPPE-SEYLER), 1887, A., 406.
- $\beta\gamma$ -Dihydroxymethyl- ψ -carbostyryl** (FRIEDLÄNDER and MÜLLER), 1887, A., 978.
- m-a*-**Dihydroxymethylcoumarilic acid** (LANG), 1887, A., 263.
- Dihydroxymethylcoumarin** (V. PECHMANN and DUISBERG), 1884, A., 67.
- 4:6-Dihydroxy- β -methylcoumarin** (V. PECHMANN and COHEN), 1885, A., 57.
- Dihydroxymethyldihydroquinolinecarboxylic acid** (KRÓLIKOWSKI and NENCKI), 1888, A., 865.
- 2':4'-Dihydroxymethyl-3'-ethylquinoline** (RÜGHEIMER and SCHRAMM), 1887, A., 738; 1888, A., 502.

2':4'-Dihydroxy-1-methylquinoline,
3'-chloro- (*chlorohydroxy-o-tolucarbostyryl*) (RÜGHEIMER and HOFFMANN), 1886, A., 160.

Dihydroxy-2'-methylquinoline-derivatives, synthesis of (CONRAD and LIM-PACH), 1888, A., 853.

β -o-Dihydroxy- α -naphthaldehyde (BRADLEY and DAINS), 1892, A., 1459.

1:4'-Dihydroxynaphthalene (ARMSTRONG and WYNNE), 1887, P., 43.

1:1'(?)-Dihydroxynaphthalene (MELDOLA and HUGHES), 1890, T., 633.

1:3'-Dihydroxynaphthalene (CLAUS), 1889, A., 714.

2:2'-Dihydroxynaphthalene (CLAUSIUS), 1890, A., 627.
1:1'-*dichloro*- and 1:3:3':1'-*tetrachloro*- (CLAUSIUS), 1890, A., 629.

Dihydroxynaphthalene, action of, on blood (LÉPINE), 1888, A., 184.

Dihydroxynaphthalenedicarboxylic acid (CLAUS and MEIXNER), 1888, A., 612.

Dihydroxynaphthalenedisulphonic acid, sodium ammonium salt of (WITT), 1889, A., 273.

Dihydroxynaphthalenes, isomeric (ERDMANN), 1889, A., 157.

Dihydroxynaphthalenes, 1:2'- and 2:3'- (EMMERT), 1888, A., 57.

Dihydroxy- α -naphthaquinone (*hydroxyjuglone*) and its derivatives (MYLIUS), 1885, A., 803.

3:4-Dihydroxy-1:2-naphthaquinone (BAMBERGER and KITSCHOLT), 1892, A., 494; (ZINCKE), 1892, A., 720.

2'':3''-Dihydroxynaphthaquinoxaline (KÜHLING), 1892, A., 70.

Dihydroxynaphthoxanthenes (BENER), 1892, A., 1100.

2':2:1-Dihydroxynaphthylamine (CLAUSIUS), 1890, A., 628.

$\alpha\beta$ -Dihydroxynaphthylamine, hydrochloride of (KÖRN), 1884, A., 1186.

Dihydroxyisonicotinamide (RUHEMANN), 1888, A., 728.

Dihydroxy- δ -nitroberberine (MARFORI), 1889, A., 628.

1:3-Dihydroxy- δ -nitrodiphenylamine (NIETZKI and SCHUNDELEN), 1892, A., 310.

***p*-Dihydroxy- δ -nitrodiphenyltrichloroethane** (ELBS and HOERMANN), 1889, A., 998.

Dihydroxy α -naphthylphosphinic acid (VILLE), 1889, A., 1135.

Dihydroxypentane [b.p. 260°] (*pentyl- α -glycol*) (GUSTAVSON and DEMJANOFF), 1889, A., 950; (DEMJANOFF), 1892, A., 1292.

Dihydroxypentane [b.p. 260°] (*pentyl- α -glycol*), oxides of (DEMJANOFF), 1892, A., 1292.

Dihydroxypentane [b.p. 220°]. See γ -Amylene glycol.

Dihydroxypentenecarboxylic acid, *di*-chloro- (HANTZSCH), 1888, A., 131; 1889, A., 853.
trichloro- (HANTZSCH), 1888, A., 130; 1889, A., 853; (HOFFMANN), 1889, A., 856.

Dihydroxyphenazine (FISCHER and HEPP), 1890, A., 801.

Dihydroxyphenquinone, *tetrachloro*-*dibromo*- (BENEDIKT), 1883, A., 984.

Dihydroxyphenoxypropane (*phenylglycerol*) (LINDEMANN), 1891, A., 1198.

3:5-Dihydroxyphenylacetic acid (CORNELIUS and v. PECHMANN), 1886, A., 802.

Dihydroxyphenylacrylic acid. See Caffeic acid.

$\alpha\gamma$ -Dihydroxy- γ -phenylbutyric acid, lactone of (BIEDERMANN), 1892, A., 472.

$\beta\gamma$ -Dihydroxy- γ -phenylbutyric acid (FITTIG), 1888, A., 595; (FITTIG and OBERMÜLLER), 1892, A., 986.

Dihydroxyphenylbutyrolactone, *bromo*- (FISCHER and STEWART), 1892, A., 1447.

$\alpha\beta$ -Dihydroxyphenylpropionic acid. See β -Phenylglyceric acid.

Dihydroxyphenylquinoline [m.p. 114°] (WEIDEL), 1887, A., 847.

***p*-Dihydroxyphenylthiocarbamide** (KALCKHOFF), 1883, A., 1110.

Dihydroxyphenylvaleric acid (FITTIG and MAYER), 1892, A., 986.

Dihydroxyphosphinic acids (VILLE), 1889, A., 1134; 1890, A., 618.

$\alpha'\gamma$ -Dihydroxy- α -picoline (COLLIE and MYERS), 1892, T., 722.

$\alpha'\beta'$ -Dihydroxy- α -picoline, *di*- and *tri*-chloro- (HOFFMANN), 1889, A., 856.

Dihydroxypicoline dibromide (COLLIE and MYERS), 1892, T., 724.

Dihydroxypiperohydronic acids, $\alpha\beta$ - and $\beta\gamma$ - (v. REGEL), 1887, A., 488.

Dihydroxypropanetricarboxylic acid, and its salts (KILIANI), 1885, A., 744.

$\alpha\beta$ -Dihydroxypropionic acid. See Glycic acid.

Dihydroxypyridine (KOENIGS and GEIGY), 1884, A., 1369; (WEIDEL and BLAU), 1886, A., 76.
salts of (KOENIGS and GEIGY), 1884, A., 1369.

- 2:6-Dihydroxypyridine, 4-amido-. See Glutazine.
- Dihydroxypyridinecarboxylic acid** (*oximidocumaric acid*) (OST), 1884, A., 1302.
- Dihydroxypyridinecarboxylic acid** (*comenamic acid*) (OST), 1883, A., 792.
- 2:4-Dihydroxypyridine-5- or 6 (?) - carboxylic acid, 3-nitro- (BISCHOFF), 1889, A., 519.
- 2:6-Dihydroxypyridine-3-carboxylic acid. See Citrazinic acid.
- Dihydroxypyromellitic acid** (*quinol-tetracarboxylic acid*) (NEF), 1888, T., 453.
pyrazolone derivative of (NEF), 1890, A., 984.
anhydride of (NEF), 1890, A., 984.
- Dihydroxyquinoline** (LELLMANN), 1887, A., 973.
- α -Dihydroxyquinoline [m.p. 130°—136°] (LA COSTE and VALEUR), 1886, A., 629.
- β -Dihydroxyquinoline [m.p. 68°] (LA COSTE and VALEUR), 1886, A., 629; 1888, A., 297.
- 1:2'-Dihydroxyquinoline (*hydroxycarbo-styryl*) (V. BAEYER and BLOEM), 1883, A., 197; (FRIEDLÄNDER and WEINBERG), 1883, A., 351.
- 1:4-Dihydroxyquinoline (CLAUS and POSSELT), 1890, A., 523.
- 1:1'-Dihydroxyquinoline, 2:4-dichloro- (HEBERAND), 1889, A., 61.
- Dihydroxyisoquinoline, chloro- (RÜGHEIMER), 1886, A., 702.
- Dihydroxyquinolines, 2':3'- and 2':4'- (FRIEDLÄNDER and WEINBERG), 1883, A., 351.
- 2':4'-Dihydroxyquinoline-3'-carboxylic acid (BISCHOFF), 1889, A., 519.
- 2':4'-Dihydroxyquinoline-3'-oxime (*quinisatorine*) (V. BAEYER and HOMOLKA), 1884, A., 1029.
- 2':4'-Dihydroxyquinolinesulphonic acid (V. BAEYER and BLOEM), 1883, A., 197.
- Dihydroxyquinone**, dichloro-. See Chloranilic acid.
nitramido-, potassium salt of (NIETZKI and BENCKISER), 1885, A., 779.
- 2:5-Dihydroxyquinone (NIETZKI and SCHMIDT), 1888, A., 1181.
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- 2:5-Dihydroxyquinone, 3:6- diamido- (NIETZKI and SCHMIDT), 1888 A., 943.
3-chloro- (KEHRMANN and TIESLER), 1890, A., 242.
- 2:5-Dihydroxyquinone, 3-chloro-, action of aniline on (KEHRMANN), 1890, A., 756.
6-chloro-3-iodo- (KEHRMANN and TIESLER), 1890, A., 242.
diimido- (NIETZKI), 1884, A., 58.
nitro- (NIETZKI and SCHMIDT), 1889, A., 968.
- 3:6-Dihydroxyquinone (LOEWY), 1886, A., 1028.
2:5-dinitro-. See Nitranilic acid.
- Dihydroxyquinones**, action of, on o-diamines (NIETZKI and HASTERLIK), 1891, A., 944.
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- Dihydroxyquinonephenazine** (NIETZKI and SCHMIDT), 1888, A., 690.
- Dihydroxyquinoxaline** (BLADIN), 1885 A., 257, 786.
- Dihydroxysebacic acid** (CLAUS and STEINKAULER), 1888, A., 134.
- Dihydroxyshikimic acid** (ELJKMAN), 1891, A., 920.
- Dihydroxystearic acid** (SAYTZEFF), 1886, A., 140; (SPIRIDONOFF), 1889, A., 123; (GRÖGER), 1889, A., 690.
- Dihydroxystearic acids** (M., C., and A. SAYTZEFF), 1888, A., 816.
- o*-Dihydroxystilbene (HARRIES), 1892, A., 168.
- p*-Dihydroxystilbene (ELBS and HOERMANN), 1889, A., 997.
- Dihydroxystilbenediamine** (JAPP and HOOKER), 1884, T., 680.
action of acetic and benzoic anhydrides on (JAPP and HOOKER), 1884, T., 683.
- Dihydroxysuccinic acid**. See Tartaric acid.
- Dihydroxytartaric acid** (*carboxytartaric acid*) (KEKULÉ), 1884, A., 41; (MILLER), 1889, A., 1149.
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- Dihydroxyterephthaldihydroxamic acid** (JEANRENAUD), 1889, A., 871.

- 3:6-Dihydroxyterephthalic acid** (*quinolldicarboxylic acid; quinonehydrodicarboxylic acid*) (WEDEL), 1884, A., 834.
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- 3:6-Dihydroxyterephthalic acid, di-bromo-** (BÜNIGER), 1888, A., 954.
p-dichloro- (HANTZSCH and ZEUCKENDORF), 1888, A., 278.
*dä*nido- (BÜNIGER), 1888, A., 955.
- Dihydroxytetrahydroterephthalic acid** [m. p. 191°] (JEANRENAUD), 1889, A., 872.
- Dihydroxythiobenzene**, properties of (TASSINARI), 1891, A., 186.
- Dihydroxythiobenzenes** (TASSINARI), 1889, A., 245; 1892, A., 1316.
- Dihydroxydithiobenzoic acid** (LIPPMANN), 1890, A., 163.
- Dihydroxythymoquinone** (KOWALSKI), 1892, A., 1098.
constitution of (MAZZARA), 1890, A., 884.
- 2:3-Dihydroxytoluene**, synthesis of (LIMPACH), 1892, A., 447.
- 2:4-Dihydroxytoluene** (*cresoreinol*) from tolylenediamine (WALLACH), 1883, A., 329.
identity of, with *isocresinol* (NÖLTING and WEINGÄRTNER), 1886, A., 346.
*d*initro- and *d*initroso- (v. KOSTANECKI), 1888, A., 264, 263.
- 2:6-Dihydroxytoluene** (ULLMANN), 1884, A., 1317.
- 3:5-Dihydroxytoluene**. See *Orcinol*.
- 2:4-Dihydroxy-1:3- or -1:5-toluic acid** (*cresorcinolcarboxylic acid*) (v. KOSTANECKI), 1886, A., 242.
- 5:3-Dihydroxy-*o*-toluic acid** (*cresorsellinic acid*), and its salts (JACOBSEN and WIERSS), 1883, A., 1121.
- 5:3-Dihydroxy-*p*-toluic acid** (WEINREICH), 1887, A., 669.
- Dihydroxytoluic aldehyde** (*oreylaldehyde*) (v. PECHMANN and WELSH), 1884, A., 1346.
- Dihydroxytoluquinone** (ZINCKE), 1883, A., 1118.
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- 3:6-Dihydroxytoluquinone**, 5-nitro- (*tolunitranilic acid*) (KEHRMANN), 1888, A., 940; (KEHRMANN and BRASCH), 1889, A., 969.
- Dihydroxytoluinoxaline** (BLADIN), 1885, A., 785; (HINSBERG), 1886, A., 82.
- Dihydroxytolylcarbamide** (SÖDERBAUM and WIDMAN), 1889, A., 972.
- p*-Dihydroxytriphenylmethane**, and its derivatives (RUSSANOFF), 1889, A., 1188; 1891, A., 1234.
m-nitro- (DE VARDA and ZENONI), 1891, A., 1346.
*d*initro- (RUSSANOFF), 1891, A., 1235.
- Dihydroxyundecylic acid** (HAZURA and GRÜSSNER), 1889, A., 375.
- Dihydroxyvaleric acid** (*$\alpha\beta$ -dimethylglyceric acid*) (MELIKOFF), 1886, A., 1009; 1887, A., 30; (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 297.
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- 3:4-Dihydroxyxanthone** (GRAEBE and EICHENGRÜN), 1891, A., 707.
bromo-, derivatives of (GRAEBE and EICHENGRÜN), 1892, A., 1226.
- Di-*o*-hydroxy-*m*-xylene** (*m-xylene glycol*) (COLSON), 1884, A., 1313.
- Di-*o*-hydroxy-*o*-xylene** (*o-xylene glycol*) (COLSON), 1884, A., 1000.
- 2:4-Dihydroxy-*m*-xylene** (*dimethylresorcinol*) (WISCHIN), 1891, A., 74.
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- 4:6-Dihydroxy-*m*-xylene**. See *Xylorcinol*.
- 3:5-Dihydroxy-*p*-xylene** (v. KOSTANECKI), 1887, A., 39.
- Dihydroxyxylenes** (*xylene glycols*), saponification of the haloid derivatives of, by neutral substances (COLSON), 1885, A., 146.
- Diimide**, attempts to prepare (THIELE), 1892, A., 1430.
- Diketodihydropentene**, *tetrachloro-* (ZINCKE and RABINOWITSCH), 1891, A., 691.
- 2':4'-Diketodihydroquinazoline** (ABT), 1889, A., 609.
- Diketoheptane**. See *Methyl isobutyl diketone*.
- m*-Diketohexamethylene**, *heptachloro-* (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Diketohexamethylene-dioxime and -diphenylhydrazone** (v. BAAYER and NOYES), 1889, A., 1147, 1148.
- Diketohexanes**. See *Methyl propyl diketones*.
- α -Diketohexene**, *hexachloro-* (ZINCKE), 1890, A., 961.
- m*-Diketohexene**, *hexachloro-* (ZINCKE and FUCHS), 1892, A., 1461.

- o*-Diketohexene, *hexachloro*-, action of phosphoric chloride on, and behaviour of, on heating (ZINCKE and KÜSTER), 1891, A., 819.
- p*-Diketohexene, *hexachloro*-, (ZINCKE and FUCHS), 1892, A., 447.
- pentachloroamido*-, (ZINCKE and FUCHS), 1892, A., 450.
- $\alpha\beta$ -Diketohexylene (OTTE and V. PECHMANN), 1889, A., 1139.
- α -Diketohydrindene (WISLICENUS), 1888, A., 1194; (WISLICENUS and KÖTZLE), 1889, A., 1067.
- dichloro*-, (ZINCKE), 1888, A., 489.
- Diketohydrindene, dioxime of (WISLICENUS and KÖTZLE), 1889, A., 1067.
- chlorinated and brominated (ZINCKE and GERLAND), 1888, A., 1199.
- Diketohydronaphthalene, *tetrachloro*-, (ZINCKE), 1888, A., 489.
- and its decomposition products (ZINCKE and COCKSEY), 1890, A., 784.
- o*-Diketohydronaphthalene, *tetrachloro*-, its hydrates and alcoholates (ZINCKE and ARNST), 1892, A., 858.
- 2':2-Diketohydronaphthalene, *deca-chloro*-, (CLAUSIUS), 1890, A., 629.
- Diketohydronaphthalene hydrate, *tri-chloro*-, (ZINCKE), 1888, A., 158.
- $\alpha\beta$ -Diketohydronaphthalene hydrate, *dichloronitro*-, (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- $\alpha_1\alpha_2$ -Diketo- γ_1 -methyljulole (REISSERT), 1892, A., 496.
- Diketones (BÉHAL and AUGER), 1890, A., 388.
- action of bleaching powder and of hypochlorous acid on (ZINCKE), 1892, A., 720.
- action of diamines on (COMBES), 1889, A., 851.
- action of hydroxylamine on (GOLD-SCHMIDT), 1884, A., 62; (MÜNCHMEYER), 1886, A., 350, 877; 1887, A., 373.
- action of methylhydrazine on (KOHLE-RAUSCH), 1890, A., 24.
- additive and condensation compounds of, with ketones (JAPP and MILLER), 1885, T., 11.
- o*-Diketones, colour reaction exhibited by (BAMBERGER), 1885, A., 807.
- fatty, preparation of (V. PECHMANN), 1892, A., 425.
- Diketones, hydrocyanides of, preparation and hydrolysis of (JAPP and MILLER), 1886, P., 249; 1887, T., 29.
- saponification of (JAPP and MILLER), 1884, A., 329.
- α -Diketones (V. PECHMANN), 1888, A., 811.
- action of aldehydes and ammonia on (WADSWORTH), 1890, T., 8.
- condensation of, with ethylic acetoacetate (JAPP and KLINGEMANN), 1888, P., 114.
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- hydrazides of (JAPP and KLINGEMANN), 1888, P., 11.
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- β -Diketones, action of hydroxylamine on (HANTZSCH), 1891, A., 739.
- γ -Diketones, action of phenylhydrazine on (JAPP and HUNTLY), 1888, T., 184; P., 11.
- Diketonic acids (KUES and PAAL), 1887, A., 261.
- $\alpha\beta$ -Diketo-octane, secondary (OTTE and V. PECHMANN), 1889, A., 1138.
- Diketopentamethylene derivatives, action of amines on (INCE), 1890, A., 1090.
- bromo- and chloro-derivatives of (HANTZSCH), 1889, A., 855.
- chloro- (HANTZSCH), 1888, A., 132.
- Diketopentamethylenecarboxylic acid, chloro- (HANTZSCH), 1888, A., 132.
- $\alpha\delta$ -Diketopentanecarboxylic acids, *mono*- and ϵ -*dichloro*-, (HANTZSCH), 1889, A., 854.
- $\alpha\beta$ -Diketopiperazines (BISCHOFF and NASTVOGEL), 1889, A., 1015.
- $\alpha\gamma$ -Diketopiperazines (BISCHOFF and NASTVOGEL), 1889, A., 1011.
- Diketotetrahydrobenzene, *hexachloro*-, (ZINCKE and KÜSTER), 1888, A., 1277.
- Dilactylic acid (TANATAR and TSCHÉLÉ-BÉFF), 1891, A., 177.
- Dilactylic acids, α - and β -*mono*- and *di-thio*-, (LOVÉN), 1884, A., 1298, 1299.
- Dilatometer, differential, and its application in an investigation on the formation of alums (SPRING), 1884, A., 887.
- Dilauryl-carbinol and -carbinyl acetate (KIPPING), 1890, T., 983, 984.
- Dilituric acid (CERESOLE), 1883, A., 913.
- Diluents, influence of, on the illuminating power of gases (FRANKLAND), 1884, T., 227.
- Dilution, influence of, on the rate of chemical reactions (DE LA CROIX), 1884, A., 1090.

- Dilution constants**, electromotive (MIESLER), 1887, A., 1072; 1888, A., 13.
- Dimalonylmaleic acid** (PUM), 1888, A., 1059.
- Dimethamido-**. See Dimethylanido-.
- Dimethoxyanthranilcarboxylic acid** (LIEBERMANN), 1886, A., 468.
- 1:3-Dimethoxybenzene** (*resorcinyl dimethyl ether*), 4-amido-, and its derivatives (BECHHOLD), 1889, A., 1155.
- 4-nitro-** (JACKSON and WARREN), 1891, A., 1025.
- Dimethoxybenzoic acid**, *di*bromo- (v. BOYEN), 1888, A., 680.
- Di-o-methoxybenzylidene-ethylenediamine** (MASON), 1887, A., 493.
- Dimethoxydichloroquinol** (KEHRMANN), 1889, A., 707.
- Dimethoxydichloroquinols**, α - and β - (KEHRMANN), 1890, A., 137.
- Dimethoxydichloroquinone** (KEHRMANN), 1889, A., 707.
- p*-Dimethoxydichloroquinone** (KEHRMANN), 1890, A., 136.
- Dimethoxycinchonic acid** (GOLD-SCHMIEDT), 1886, A., 479; 1888, A., 302.
- m*-o-Dimethoxycinnamic acid** (SCHNELL), 1884, A., 1166; 1887, A., 140.
- Dimethoxyconiferin** (*syringin*) (KÖRNER), 1889, A., 159.
- Dimethoxyconiine** (v. HOFMANN), 1885, A., 563.
- Dimethoxydibenzyl** (*anisyl*) mercaptan and *disulphide* (BAUMANN and FROMM), 1891, A., 1051.
- Dimethoxydiethylacetone** (JAMES), 1886, T., 57.
- Dimethoxydihydrochloroquinolinelactone** (LIEBERMANN and KLEEMANN), 1887, A., 48.
- Dimethoxydihydroxybenzene** (*dimethylapionol*) from apiole (CIAMICIAN and SILBER), 1889, A., 407; 1890, A., 35.
- Dimethoxydimethylbenzidine** (Me:NH₂:OMe=2:4:5) (BRASCH and FREYSS), 1891, A., 1231.
- Dimethoxydimethylmalonic acid** (KLEBER), 1888, A., 1057.
- Dimethoxydinaphthalenes**, α - and β - (OSTERMAYER and ROSENHEK), 1885, A., 171.
- Dimethoxydinaphthylenemethane** (DIANIN), 1889, A., 1188.
- p*-Dimethoxydiphenylpiperazine** (BISCHOFF), 1889, A., 1011.
- action of nitrous acid on (BISCHOFF and TRAPESONZJANZ), 1890, A., 1332.
- Dimethoxyditolylquinone** (NIETZKI), 1883, A., 467.
- Dimethoxygentisein** (v. KOSTANECKI and SCHMIDT), 1891, A., 1386.
- Dimethoxyhydrocarbostyryllactone** (LIEBERMANN and KLEEMANN), 1887, A., 48.
- Dimethoxyindigo** (RIECHE), 1889, A., 1169.
- p*- γ -Dimethoxy-2'-methylquinoline** (CONRAD and LIMPACH), 1888, A., 853.
- Dimethoxyphenylcrotonic acid** (*dimethyl- β -methylumbellie acid*) (v. PECHMANN and COHEN), 1884, A., 1331.
- Dimethoxyphenylglyoxylic acid** (CIAMICIAN and SILBER), 1890, A., 967.
- Dimethoxyphenylglyoxylic phenylhydrazone** (GARELLI), 1891, A., 711.
- Dimethoxyphenylpropionic acid** (WILL), 1884, A., 68.
- Dimethoxy-*o*-phthalic acid**. See Hemipinic acid.
- Dimethoxyquinazoline** (ABT), 1889, A., 610.
- Dimethoxyquinoline** (LA COSTE and VALEUR), 1887, A., 973; (GOLD-SCHMIEDT), 1887, A., 1119; 1888, A., 303.
- Dimethoxyquinone** (WILL), 1888, A., 458.
- from trimethylpyrogallol, constitution of (WILL), 1888, A., 1090.
- Dimethoxystilbenes**, *o*- and *p*- (KOPP), 1892, A., 719.
- Dimethoxyterephthalic acid** (NEF), 1890, A., 986.
- o*-Dimethoxy-*m*-tolidine** (BRASCH and FREYSS), 1891, A., 1232.
- Dimethoxytolylenephthalamidone** (BIS-TRZYCKI), 1891, A., 746.
- Dimethoxyumbellie acid** (TIEMANN and WILL), 1883, A., 200.
- Dimethyl diketone** (*diacetyl*) (v. PECHMANN), 1888, A., 248; (FITTIG), 1888, A., 252; (v. PECHMANN and OTTE), 1888, A., 1052.
- preparation of (FITTIG, DAIMLER and KELLER), 1889, A., 491; (v. PECHMANN), 1892, A., 425.
- action of benzaldehyde and ammonia on (WADSWORTH), 1890, T., 8.
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- Dimethyl diketone** (*diacetyl*), derivatives of (v. PECHMANN), 1888, A., 811.
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- Dimethyl diketone, dibromo-** (FITTIG, DAIMLER and KELLER), 1889, A., 491.
s-tetrabromo- (KELLER), 1890, A., 359.
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- Dimethyl diketonecarboxylic acid** (*ketipic acid*) (FITTIG and DAIMLER), 1887, A., 362; (FITTIG, DAIMLER and KELLER), 1889, A., 490.
- Dimethyl ketone.** See Acetone.
- Dimethylacetal, trichloro-** (MAGNANIMI), 1887, A., 28.
- Dimethylacetoacetic acid** (CERESOLE), 1883, A., 41.
- Dimethylacetone.** See Methyl isopropyl ketone.
- Dimethylacetylbutylamine** (LIPP), 1892, A., 1244.
- Dimethylacetylene and its tetrabromides** (FAWORSKY), 1890, A., 1220.
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- Dimethylacetylenedicarbamide** (FRANCHIMONT and KLOBBIE), 1889, A., 126.
- $\alpha\alpha'$ -Dimethylacetylhexoic acid** (KIPPING and MACKENZIE), 1891, T., 570, 584.
- $\alpha\omega$ -Dimethyl- ω -acetylhexoic acid** (KIPPING and MACKENZIE), 1890, P., 117.
- Di- α -methyl- β -acetylpropionic acid** (*mesitonic acid*) (ANSCHÜTZ and GILLET), 1888, A., 1272.
- $\alpha\beta$ -Dimethylacraldehyde** (LIEBEN and ZEISEL), 1886, A., 783; (HAYMANN), 1889, A., 487.
- Dimethylacridine** (BONNA), 1887, A., 928.
- Dimethylacridinium hydroxide** (BERNTSEN), 1884, A., 1356.
- Dimethylacrylic acid** (*pentenoic acid*) (GORBOFF and KESSLER), 1888, A., 814.
- Dimethylacrylic acid** (*pentenoic acid*) from isovaleric acid (DUVILLIER), 1891, A., 1011.
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- β -Dimethylacrylic acid, and its salts** (USTINOFF), 1886, A., 140; 1887, A., 359.
- s*-Dimethyladipic acid** (ZELINSKY; AUWERS and MEYER), 1890, A., 132.
- Dimethyladipic acids, stereoisomeric** (ZELINSKY), 1892, A., 430.
- Dimethylæsculetin** (TIEMANN and WILL), 1883, A., 199.
- Dimethylalloxanphenylhydrazone** (KÜHLING), 1892, A., 442.
- Dimethylalloxazine** (KÜHLING), 1891, A., 1342.
- Dimethylallylcarbinol, bye-product of the preparation of** (DIÉFF), 1883, A., 1076.
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- Dimethyl- β -allylcarbinol** (*dimethylisopropenylcarbinol*) (CHUPOTSKY and MARIUTZA), 1890, A., 727.
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- Dimethylallylene** (*pentinene*), action of hydrogen chloride on (KONDAKOFF), 1889, A., 1127.
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- $\alpha\beta$ -Dimethylallylic alcohol** (LIEBEN and ZEISEL), 1886, A., 784.
- Dimethylamarine, formula of** (CLAUS), 1883, A., 204.
- s*-Dimethylamides** (HENRY), 1885, A., 887.
- Dimethylamidoazo-** See under Azo-.
- p*-Dimethylamidobenzaldoxime** (KNÖFLER and BOESSNECK), 1888, A., 267.
- Dimethylamidobenzamide** (KNAPE), 1891, A., 910.
- Dimethylamidobenzeneazo-** See under Azo-.
- Dimethyl- mono- and -di-amidobenzhydrols and their derivatives** (ALBRECHT), 1889, A., 263, 264.
- p*-Dimethylamidobenzoic acid, nitroso-, and its derivatives** (BISCHOFF), 1889, A., 511.
- Dimethylamidobenzophenone, nitroso-** (BISCHOFF), 1889, A., 511.
- Dimethyldiamidobenzophenone, tetranitro-** (VAN ROMBURGH), 1888, A., 1079, 1197.

- p*-Dimethylamidobenzylidenephénylhydrazine (KNÖFLER and BOESSNECK), 1888, A., 267.
- β -Dimethylamidocrotonanilide (KNORR), 1892, A., 708.
- Dimethylamidocyanuric acid and chloride (v. HOFMANN), 1886, A., 40.
- Dimethylamidodicarbimidobenzobenzoic acid (GRIESS), 1885, A., 1225.
- Dimethylamidodiphenylamine (FISCHER and WACKER), 1888, A., 1286.
- d*-nitro- (LELLMANN and MACK), 1890, A., 1410.
- Dimethyltriamidodiphenylamine (KEHRMANN and MESSINGER), 1892, A., 1109.
- Dimethyltriamidodiphenylmethane (ALBRECHT), 1889, A., 264.
- Dimethyltriamidodiphenyltolylmethane (NÖLTING), 1891, A., 727; 1892, A., 189.
- Dimethylamidohexylene (TAFEL and NEUGEBAUER), 1890, A., 1001.
- Dimethylamidohydroquinoline hydrochloride (OSTERMAYER), 1885, A., 814.
- Dimethylamidomethylhydroquinoline dimethiodide (ZIEGLER), 1888, A., 610.
- Dimethylamidomethylphenazine (BERNTSEN and SCHWEITZER), 1887, A., 139.
- Dimethylamidomethylthiazole (HANTZSCH and WEBER), 1888, A., 257.
- α -Dimethylamido- α -naphtha-phenazine and -tolazine (EICKER), 1891, A., 471.
- Dimethyl-*m*-amidophenetol (VOM BAUR and STAEDEL), 1883, A., 579.
- Dimethylamidophenol, *d*-nitro-, and its derivatives (LIPPMANN and FLEISSNER), 1886, A., 235.
- Dimethyl-*m*-amidophenol, nitroso- (MÖHLAU), 1892, A., 887.
- Dimethylamidophenyl hexyl ketone (AUGER), 1887, A., 815.
- Dimethylamidophenylarsine oxide and sulphide (MICHAELIS and RABINERSON), 1892, A., 1321.
- Dimethylamidophenyltrichloromethylcarbinol (BOESSNECK), 1885, A., 976.
- Dimethylamidophenylethane (HECMANN and WIERNIK), 1887, A., 1039.
- Dimethyl-*p*-amidophenylic ethylxanthate (LEUCKART), 1890, A., 605.
- Dimethylamidophenyl-phosphinous and -phosphonic acids (SCHENK and MICHAELIS), 1888, A., 834.
- Dimethylamidophenylphosphorous chloride (SCHENK and MICHAELIS), 1888, A., 834.
- Dimethylamidophenylquinoneimide (*phenol-blue*) (MÖHLAU), 1884, A., 594; 1886, A., 146; (FOGH), 1888, A., 592.
- trichloro-* (MÖHLAU), 1884, A., 595.
- Dimethylamidopropionic acid (DUVILLIER), 1892, A., 1302.
- Dimethylamidoquinoline (LA COSTE), 1883, A., 811.
- Dimethyldiamidoquinoxaline (NIETZKI and MÜLLER), 1889, A., 604.
- Dimethyl-*mono-* and -*di-*quinoxazones (MÖHLAU), 1892, A., 888.
- Dimethylamidosulphonic chloride and its derivatives (BEHREND), 1884, A., 285.
- Dimethylamine, properties of (v. HOFMANN), 1889, A., 688.
- heat of formation of (MULLER), 1889, A., 811.
- action of bromine on (RASCHIG), 1885, A., 1195.
- Dimethylamine chlororhodate (VINCENT), 1886, A., 311.
- hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1000.
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- Dimethylanhydracetonebenzil (JAPP and BURTON), 1887, T., 432; P., 32.
- Dimethylaniline (v. HOFMANN), 1884, A., 1320.
- manufacture of (SCHOOP), 1887, A., 474; (MÜHLHÄUSER), 1887, A., 576.
- preparation of (REINHARDT and STAEDEL), 1883, A., 578.
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- action of cenantaldehyde and heptylic chloride on, in presence of zinc chloride (AUGER), 1887, A., 814.
- action of sulphur on (MÖHLAU and KROHN), 1888, A., 361.

- Dimethylaniline**, nitration of (NÖLTING and COLLIN), 1884, A., 1013;
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- Dimethylaniline** cyanhydrin, nitroso- (LIPPMANN and FLEISSNER), 1885, A., 1213.
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- Dimethylaniline**, amido-. See Dimethylphenylenediamine.
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- Dimethylanilinealloxan** (PELLIZZARI), 1888, A., 682.
- Dimethylanilineazobenzylpiperidine** (LELLMANN and PEKRUN), 1891, A., 89.
- Dimethylanilineazyline** (LIPPMANN and FLEISSNER), 1883, A., 55, 185.
- Dimethylanilinefurfural hydrochloride** (SCHIFF), 1886, A., 612.
- Dimethylanilinequinonimide**. See Phenol-blue.
- Dimethylanilinesulphonic acid** (MICHAELIS and GODCHAUX), 1890, A., 610.
- Dimethylanilinisatin** (v. BAAYER and LAZARUS), 1886, A., 155.
- Dimethyl-*o*-anisidine**, action of nitric acid on (VAN ROMBURGH), 1892, A., 159.
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- Dimethylanthracene** [m.p. 216°] (ELBS and WITTICH), 1885, A., 518.
- 2:3-Dimethylanthracene** (ELBS and EURICH), 1887, A., 841.
- 1:3-Dimethylanthracene**, *dibromo*- (ELBS), 1890, A., 511.
- Dimethylanthrachrysone** (CAHN), 1886, A., 556.
- "m*-**Dimethylanthracylene**" (ELBS), 1890, A., 511.
- Dimethylanthraflavic acid** (*dihydroxydimethylanthraquinone*) and its acetyl- and benzoyl-derivatives (v. KOSTANECKI and NIEMENTOWSKI), 1885, A., 1240.
- Dimethylanthragallol** (*trihydroxydimethylanthraquinone*) (BIRUKOFF), 1887, A., 592.
- Dimethylanthramine** (BOLLERT), 1883, A., 1139.
- 1:3-Dimethylanthranol** (ELBS), 1890, A., 511.
- Dimethylanthraquinone** [m.p. 236°] (ANSCHÜTZ and ROMIG), 1885, A., 768.
- α -m- β* -**Dimethylanthraquinone** (ELBS), 1886, A., 557.
- 1:4-Dimethylanthraquinone** (ELBS), 1890, A., 512.
- Dimethylanthraquinones**, 1:3- and 2:3- (ELBS and GÜNTHER; ELBS and EURICH), 1887, A., 841.
- Dimethylanthraquinonecarboxylic acid** (GRESLY), 1886, A., 1029.
- Dimethylanthrarufin** (*s-dihydroxydimethylanthraquinone*) (v. KOSTANECKI and NIEMENTOWSKI), 1885, A., 531.
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- Dimethylanthrone** (HALLGARTEN), 1888, A., 1202.
- Dimethylapionole** (*dimethoxydihydroxybenzene*) (CIAMICIAN and SILBER), 1889, A., 407; 1890, A., 35.
- Dimethylapionylcarboxylic acid** (BAROLOTTI), 1892, A., 1315.
- Dimethylarsinic acid** (*cacodylic acid*), action of, in the animal economy (MARSHALL and GREEN), 1886, A., 730.

- Dimethylasparagine** (KÖRNER and MENOZZI), 1890, A., 870.
- Dimethylazethane** (CURTIUS and THUN), 1891, A., 1356.
- Dimethylazobenzene**, *tetranitro-* (MER-TENS), 1886, A., 1022.
- Dimethylbarbituric acid** (*dimethyl-malonylurea*) (CONRAD and GUTH-ZEIT), 1883, A., 315.
- Dimethylbenzaldehyde** (HINRICHSSEN), 1889, A., 131, 391.
- Dimethylbenzamide**, nitro- (VAN ROM-BURGH), 1886, A., 546.
- Dimethylbenzidine**, *tetranitro-* (VAN ROMBURGH), 1887, A., 245.
- 2:2'-Dimethylbenzimidazole** (BAMBERGER and BERLÉ), 1892, A., 632.
- Dimethylbenzodihydroxyanthra-quinone** and its acetyl derivative (v. KOSTANECKI and NIEMENTOWSKI), 1885, A., 1240.
- 2:3-Dimethylbenzoic acid** (*hemi-mellithylic acid*) (JACOBSEN), 1887, A., 36.
- 2:4-Dimethylbenzoic acid** (*xylic acid*), bromo- (GUNTER), 1884, A., 1347. nitro- (AHRENS), 1892, A., 1437. 3-nitro- (CLAUS), 1890, A., 980. 3:5-dinitro- (CLAUS), 1890, A., 981.
- 2:5-Dimethylbenzoic acid** (*p-xylic acid*), bromo-, and its salts (GUNTER), 1884, A., 1347.
- 3:5-Dimethylbenzoic acid** (*mesitylenic acid*), thermochemistry of (STOH-MANN, KLEBER and LANGBEIN), 1889, A., 1096. bromo-, preparation of, from bromo-mesitylene (SÜSSENGUTH), 1883, A., 469. *di*bromo-, and its salts (SÜSSENGUTH), 1883, A., 470.
- o-m*-Dimethylbenzoyl-acetic acid** (CLAUS and FICKERT), 1887, A., 253.
- "*α*-Dimethylbenzoylenecarbamide"** (ABT), 1889, A., 610.
- o-p*-Dimethylbenzoyl-β-propionic acid** (CLAUS and WERNER), 1887, A., 827.
- Dimethylbenzoyl-ψ-cumidine meth-iodide** (FRÖHLICH), 1885, A., 151.
- Dimethylbenzyl salts** (HINRICHSSEN), 1889, A., 391.
- Dimethylbismuthine** bromide and chloride (MARQUARDT), 1887, A., 802. hydroxide (MARQUARDT), 1887, A., 803.
- Dimethylbromobenzeneazammonium compounds** (ZINCKE and ARZBERGER), 1889, A., 502.
- Dimethyl*di*bromoheptamethylene** (KIPPING and PERKIN), 1891, T., 223.
- Dimethylbromodinitroresorcinol** (JACK-SON and WARREN), 1891, A., 1025.
- Dimethyl*tri*bromonitroresorcinol** (JACK-SON and WARREN), 1891, A., 1026.
- "Dimethylbutylallylcarbinamine"** (MERLING), 1891, A., 1506.
- Dimethyl*iso*butylallylcarbinol** (SCHATZ-KI), 1885, A., 237.
- 2:6-Dimethyl-4-*iso*butylpyridine** (*iso-butylutidine*) (ENGELMANN), 1886, A., 260.
- 2:6-Dimethyl-4-*iso*butylpyridine-3:5-di-carboxylic acid** (ENGELMANN), 1886, A., 260.
- as*-Dimethylcarbamide** (VAN DER ZANDE), 1889, A., 962.
- Dimethylcarbazole** (TÄUBER and LOEWENHERZ), 1891, A., 835, 1491. *diamido-* (TÄUBER and LOEWENHERZ), 1891, A., 834.
- Dimethylcarbostyryl** (KNORR), 1888, A., 1111. *o*-, *m*- and *p*- (KNORR), 1888, A., 1112.
- 1':4'-Dimethyl-ψ-carbostyryl** (KNORR), 1887, A., 159; (KNORR and KLOTZ), 1887, A., 278; (REISSERT), 1892, A., 498.
- Dimethylcarbostyrylsulphonic acid** (KNORR), 1888, A., 1111.
- Dimethyl*tri*chloracetamide** (CLOËZ), 1887, A., 1098.
- Dimethyl-*m*-chloraniline** and its salts (VOM BAUR and STAEDEL), 1883, A., 579.
- Dimethylchloro*di*amidoethoxyquinone** (KEHRMANN), 1891, A., 904.
- Dimethyl*tri*chlorobromobenzeneazammonium iodide** (ZINCKE and ARZBERGER), 1889, A., 502.
- p-α*-Dimethylcinchonic acid** (PFITZ-INGER), 1889, A., 413.
- Dimethylcinchonine** (FREUND and ROSENSTEIN), 1892, A., 892.
- Dimethylcolchicine acid** (ZEISEL), 1888, A., 614.
- Dimethylcoumarilic acids** (HANTZSCH and LANG), 1886, A., 706.
- β-5-Dimethylcoumarin** (v. PECHMANN and COHEN), 1885, A., 56.
- Dimethylcoumarone** (HANTZSCH and LANG), 1886, A., 706.
- Dimethyl-ψ-cumidine** (v. HOFMANN), 1883, A., 324.
- Dimethyleyanidine**, amido- (TSCHER-VEN-IWANOFF), 1892, A., 1291.
- Dimethyleyanine iodide** (HOOGWERFF and VAN DORP), 1885, A., 673.
- Dimethyl-*n*- and -*iso*-cyanuric acids** (v. HOFMANN), 1886, A., 929, 930.

- Dimethyldehydrothiotoluidine** (GREEN), 1889, T., 230.
- aa'-Dimethyl-aa'-diacetylpentane** (KIPPING and MACKENZIE), 1890, P., 116; 1891, T., 570, 587.
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- Dimethyldiazine** (STOEHR), 1892, A., 507; (DENNSTEDT), 1892, A., 633.
- 2:6-Dimethyl-m-diazine, 4-amido-**. See Cyanmethine.
- Dimethyl-dicoumaric acid and -dicoumarin** (HANTZSCH and ZÜRCHER), 1887, A., 830.
- Dimethyldiethylammonium chloride and hydroxide, action of heat on** (COLLIE and SCHRYVER), 1890, T., 780.
- Dimethyldiethylindamine thiosulphonate** (BERNTHSEN), 1889, A., 778.
- Dimethyldiethyl-p-phenylenediamine** (LIPPMANN and FLEISSNER), 1884, A., 179.
diiodomethylate (LIPPMANN and FLEISSNER), 1884, A., 178.
- Dimethyldiethylphosphonium chloride, action of heat on** (COLLIE), 1888, T., 720.
- Dimethyldiethylsulphonamide** (BEHREND), 1884, A., 286.
- Dimethyldihydrazimethylene** (CURTIUS and THUN), 1891, A., 1356.
- s-Dimethyldihydroanthracene** (ANSCHÜTZ and ROMIG), 1885, A., 768.
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- as-Dimethyldihydroanthracene** (HALLGARTEN), 1888, A., 1202.
- Dimethyldihydronaphthol** (CANNIZZARO), 1884, A., 327.
- Dimethyldihydronaphthylpropionic acids** (*dihydrosantonic acids*) (GUCCI and GRASSI-CRISTALDI), 1892, A., 871.
- Dimethyldihdropentene methyl ketone** (PERKIN and STENHOUSE), 1892, T., 77.
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- Dimethyldihdropentenedicarboxylic acid** (PERKIN and STENHOUSE), 1892, T., 81.
- Dimethyldihdropyridine** [b.p. 199°] (GAUTIER and MOURGUES), 1888, A., 1315.
- βγ-Dimethyldihydroquinazoline** (GABRIEL and JANSEN), 1892, A., 218.
- Dimethyldiketohexamethylene** (v. BAeyer), 1892, A., 1183.
- Dimethyldiketohydrindene** (WISLIZENUS and KÖTZLE), 1889, A., 1068.
- Dimethyldimethylenetrissulphone** (BAUMANN), 1890, A., 1093.
- Dimethyldipiperidyl** [b.p. 265°], and its derivatives (LADENBURG), 1892, A., 1487.
- Dimethyldipiperidyl** [b.p. 230°—232°] and its derivatives (LIEBRECHT), 1887, A., 162.
- iso***Dimethyldipropyl-dithioamide** (WALLACH and REINHARDT), 1891, A., 1008.
- aa'-Dimethyldipyridyl** (HEUSER and STOEHR), 1891, A., 80.
- ββ'-Dimethyldipyridyl** (STOEHR and WAGNER), 1892, A., 629.
- "Dimethyldiquinizinehydrobenzene"** (KNOER and BÜLOW), 1884, A., 1381.
- Di-2'-methyldiquinolyl** (HINZ), 1888, A., 39.
- Dimethyldiquinolyl** [m.p. 162°] (v. MILLER), 1888, A., 966.
- Dimethyldiquinolyl** [m.p. 104°—105°] (ELIASBERG and FRIEDLÄNDER), 1892, A., 1107.
- p-Dimethyldisalicylaldehyde** (BRADLEY and DAINS), 1892, A., 1459.
- Dimethyldisulphisethionic acid, sodium salt of** (ENGELCKE), 1883, A., 972.
- Dimethyldisulphobenzoic acid, salts of** (STENGEL), 1883, A., 1000.
- Dimethylenedisulphone, derivatives of** (AUTENRIETH), 1887, A., 463.
- Dimethylenedi-p-toluidine** (GRÜNHAGEN), 1890, A., 888.
- Dimethylenemethane** (GUSTAVSON and DEMJANOFF), 1889, A., 30.
- Dimethylenethane, preparation and oxidation of** (ARMSTRONG and MILLER), 1886, T., 81.
- Dimethylenethylenedisulphone** (FASBENDER), 1888, A., 805.
- 1:4-Dimethyl-6-ethylaniline** (HODGKINSON and LIMPACH), 1892, T., 420; P., 56.
- Dimethylethylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- 1:3-Dimethyl-5-ethylbenzene** (ANSCHÜTZ and ROMIG), 1885, A., 769; (JACOBSEN), 1887, A., 37; (TÖHL and GEYGER), 1892, A., 969.
- 1:2-Dimethyl-4-ethylbenzene**. See Laurene.
- Dimethylethylcarbinol**. See *tert*-Amylic alcohol.
- 2':3'-Dimethyl-1'-ethyl-1':2'-dihydroquinoline** (FISCHER and STECHE), 1887, A., 976.
- Dimethylethylenediamine** (ANGELI), 1890, A., 954.

- Dimethylethylenedisulphone** (OTTO and CASANOVA), 1888, A., 255.
- Dimethylethylene-*o*-phenylenediamine** and its derivatives (RIS), 1888, A., 468.
- s*-Dimethylethylenic oxide** (ψ -butylenic oxide) (ELTEKOFF), 1883, A., 567.
- 2'-3'-Dimethyl-1'-ethylindole** (WOLFF), 1889, A., 259.
- Dimethylethynaphthalene** (GUCCI and GRASSI-CRISTALDI), 1892, A., 872.
- Dimethylethylphosphine** (COLLIE), 1888, T., 720.
- Dimethylethylpiperidine** (JAECKLE), 1888, A., 1104.
- Dimethylethylpyridine** (*parvoline*) (DÜRKOPF and SCHLAUGK), 1888, A., 607.
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- 2:6-Dimethyl-4-ethylpyridine** and salts of (ENGELMANN), 1886, A., 259.
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- 2:6-Dimethyl-4-ethylpyridine-3:5-dicarboxylic acid** (ENGELMANN), 1886, A., 259.
- 3:3'-Dimethyl-2'-ethylquinoline** and its derivatives (HARZ), 1886, A., 261.
- 3:3'-Dimethyl-2'-ethylquinoline-1-carboxylic acid** (V. MILLER), 1890, A., 1327.
- Dimethylethylsuccinic acid** (BISCHOFF and MINTZ), 1890, A., 743; 1891, A., 290; (BISCHOFF), 1891, A., 829.
- Dimethylethylsulphine**, preparation of (CARRARA), 1892, A., 1422.
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- Dimethylethylthymoquinol** (REYCHLER), 1892, A., 1312.
- Dimethylformamide**, platinumchloride of (PINNER), 1883, A., 1089.
- Dimethylformamidine**, and its hydrochloride (PINNER), 1883, A., 731.
- iso*-Dimethylformamidine hydrochloride** (PINNER), 1883, A., 1090.
- Dimethylfraxetin** (KÖRNER and BIGNELLI), 1892, A., 628.
- Dimethylfurfurancarboxylic acid**. See Pyrotritaric acid.
- Dimethylfurfurandicarboxylic acid**. See Carbopyrotritaric acid.
- Dimethylgentisic acid** (SCHNELL), 1887, A., 140.
- Dimethylgentisic aldehyde** (SCHNELL), 1884, A., 1166.
- Dimethylglutaric acid**, relative properties of trimethylsuccinic acid and (ZELINSKY and BESREDKA), 1891, A., 669.
- aa*-Dimethylglutaric acid** (AUWERS and JACKSON), 1890, A., 1099.
- s*-Dimethylglutaric acid** (BISCHOFF), 1890, A., 1099; (AUWERS and KÖBNER), 1891, A., 1015.
- Dimethylglutaric acids** (GUTHZEIT and DRESSSEL), 1890, A., 878; (AUWERS and KÖBNER), 1891, A., 1016.
- s*-Dimethylglutaric acids**, isomeric (ZELINSKY), 1890, A., 132.
- aa*-Dimethylglutaric anhydride** (AUWERS and JACKSON), 1890, A., 1099.
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- $\alpha\beta$ -Dimethylglyceric acid**. See Dihydroxyvaleric acid.
- $\alpha\beta$ -Dimethylglycidic acid** (MELIKOFF), 1886, A., 1009; 1888, A., 1177.
- Dimethylglycoluril** (FRANCHIMONT and KLOBBIE), 1888, A., 1180; 1889, A., 126.
- Dimethylglyoxaline** (*oxalmethylethylinc*), synthesis of (RADZISZEWSKI), 1883, A., 728.
- Dimethylglyoxime peroxide** (SCHOLI), 1891, A., 316.
- Dimethylheptamethylene** (KIPPING and PERKIN), 1891, T., 227.
- o*-Dimethylheptamethylene** (KIPPING and PERKIN), 1889, P., 145.
*di*bromo- (KIPPING and PERKIN), 1889, P., 145.
- Dimethylheptamethylenic diacetate** (KIPPING and PERKIN), 1891, T., 225.
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- α -Dimethylheptylethylene** (*nonylene*) (FREUND and SCHÖNFELD), 1892, A., 133.
- Dimethylhexadecylbenzene** (KRAFFT and GÖTTIG), 1889, A., 130.
- 2:6-Dimethylhexahydropyridine** (*lupetidine*) (LADENBURG), 1887, A., 64.
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- Dimethylhexylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- Dimethylhexylcarbinol** (*nonylic alcohol*) (FREUND and SCHÖNFELD), 1892, A., 133.
- Dimethylhexyl-hexahydropyridine and -pyridine** (JAECKLE), 1888, A., 1104.
- Dimethylhomogentisic acid** (WOLKOW and BAUMANN), 1891, A., 1129.
- Dimethylhomo-*o*-phthalimide** (GABRIEL), 1887, A., 51, 726.

- Dimethylhomopyrocatechol** (GOLD-SCHMIEDT), 1884, A., 186.
- 2:4-Dimethylhydropyridine** (LADENBURG and ROTH), 1885, A., 816.
- Dimethylic acetylenedicarboxylate** (v. BANDROWSKI), 1883, A., 313.
- amidocyanurate** (v. HOFMANN), 1886, A., 930.
- barium phosphate** (LOSSEN and KÖHLER), 1891, A., 1015.
- berberilate** (PERKIN), 1890, T., 1050.
- camphorate** (WALKER), 1892, T., 1092; (BRÜHL), 1892, A., 1102.
- carbopyrotritarate** (KNORR and CAVALLI), 1889, A., 385.
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- dichloroglycollate** (ANSCHÜTZ), 1890, A., 236.
- diacetylracemate**, molecular weight of (ANSCHÜTZ), 1888, A., 1273.
- diethylic oxalate** (ANSCHÜTZ), 1890, A., 236.
- $\Delta_{1,4}$ -dihydroterephthalate**, heats of combustion and formation of (STOHMANN and KLEBER), 1891, A., 376.
- dipropylic glycol** (MARSHALL and PERKIN), 1890, P., 138; 1891, T., 875.
- fumaroid-hexahydroterephthalate**, heats of combustion and formation of (STOHMANN and KLEBER), 1891, A., 376.
- succinosuccinate** (EBERT), 1885, A., 1122.
- α -sulphaminephthalate** (MOULTON), 1891, A., 1063.
- terephthalate** and **Δ_1 -tetrahydroterephthalate**, heats of combustion and formation of (STÖHMANN and KLEBER), 1891, A., 376.
- Dimethylimidomethylthiazoline** (TRAUMANN), 1889, A., 415.
- Dimethylimidothiazoline** (NÄF), 1891, A., 1516.
- Dimethylindamine thiosulphonate** (BERNTHSEN), 1889, A., 778.
- 2':3'-Dimethylindazole** (*dimethylindazine*) (FISCHER and TAFEL), 1885, A., 542.
- 1':3'-Dimethylisoindazole** (FISCHER and TAFEL), 1885, A., 543.
- $\beta\gamma$ -Dimethylindene**, *m*-amido- (v. MILLER and ROHDE), 1890, A., 1138.
- Dimethylindigo** (FLIMM), 1890, A., 383.
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- 2:2'-Dimethylindole** (RASCHEN), 1887, A., 956.
- 2':3'-Dimethylindole** (FISCHER), 1886, A., 805; 1887, A., 149; (WOLFF), 1888, A., 371.
- 4:1'-Dimethylindole** (HEGEL), 1886, A., 552.
- Dimethylindoles** (FISCHER), 1887, A., 148.
- Dimethylindoles, 1':2'- and 1':3'-** (DEGEN), 1887, A., 149.
- Dimethylindoleacetic acid** (FISCHER), 1886, A., 806.
- 1':2'-Dimethylindole-1'-carboxylic acid** (FISCHER), 1886, A., 806; (DEGEN), 1887, A., 149.
- 2:1'-Dimethylindole-2-carboxylic acid** (HEGEL), 1886, A., 552.
- 4:1'-Dimethylindole-2'-carboxylic acid** (HEGEL), 1886, A., 552.
- Dimethyliodamine** (RASCHIG), 1886, A., 44.
- Dimethylketol** (v. PECHMANN), 1889, A., 1137; (v. PECHMANN and DAHL), 1890, A., 1234.
- Dimethylketopentene** (DIETZEL), 1889, A., 594.
- Dimethylacetamidine hydrochloride** (PINNER), 1891, A., 63.
- Dimethyllevulinic acid** (ZELINSKY), 1887, A., 921.
- α -Dimethyllevulinic acid** (*mesitonic acid*) (ANSCHÜTZ and GILLET), 1888, A., 1272.
- s -Dimethylmaleic acid** (*pyrocinchonic acid*) (ROSER), 1883, A., 98.
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- anhydride of** (RACH), 1886, A., 1012.
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- action of phenylhydrazine on** (OTTO and HOLST), 1890, A., 1327.
- s -Dimethylmaleic α - and β -phenylhydrazines** (OTTO and HOLST), 1890, A., 1327.
- Dimethylmaleinfluorescein** (BURCKHARDT), 1886, A., 51.
- Dimethylmalonamide** (FREUND), 1884, A., 728.
- dibromo-** (FREUND), 1884, A., 1124.
- dinitro-** (FRANCHIMONT), 1886, A., 449.
- Dimethylmalonic acid** (*isopyrotartaric acid*) (CARETTE), 1886, A., 335, 611; (GORBOFF), 1888, A., 1179.
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- o-p*-Dimethylmandelic acid (CLAUS), 1890, A., 979.
- Dimethylmethylenethylene disulphide (FASBENDER), 1888, A., 805.
- Dimethylmethylenehydrazine (CURTIUS and PELUG), 1892, A., 457.
- Dimethylmethylenemidosulphonic acid (KRAFFT and BOURGEOIS), 1892, A., 701.
- Dimethylmethylenesulphone (BAUMANN and KAST), 1889, A., 1232.
- Dimethylmethylenedithioglycollic acid (BONGARTZ), 1888, A., 479.
- Dimethyl- β -methylumbellie acid (*dimethoxyphenylacetic acid*) (V. PECHMANN and COHEN), 1884, A., 1331.
- Dimethylnaphthaeurhodine (WITT), 1888, A., 491; (EICKER), 1891, A., 471.
- Dimethylnaphthalene [b.p. 265°] (CANNIZZARO and CARNELUTTI), 1883, A., 79; (CANNIZZARO), 1884, A., 328.
- Dimethylnaphthaloxazine (KÜHLING), 1892, A., 70.
- Dimethyl- α -naphthaquinoline (REED), 1887, A., 681; (COMBES), 1888, A., 968.
- Dimethyl- β -naphthaquinoline (COMBES), 1888, A., 968.
- 2':4':Dimethyl- β -naphthaquinoline (REED), 1886, A., 370; 1887, A., 681.
- Dimethyl- β -naphthaquinolinesulphonic acid (REED), 1887, A., 681.
- 2':3''-Dimethyl- α -naphthindole (WOLFF), 1889, A., 259.
- 2'-3''-Dimethyl- β -naphthindole (STECHER), 1888, A., 285; (WOLFF), 1889, A., 259.
- Dimethylnaphthol (CANNIZZARO and CARNELUTTI), 1883, A., 79.
- 2:6-Dimethylnicotinic acid (*dimethylpyridinecarboxylic acid*) (WEISS), 1886, A., 720.
- Dimethyl-dinitro-diamidobenzophenone, *tetramito*- (VAN ROMBURGH), 1888, A., 1079, 1196.
- Dimethylnitropyrrylene diketone (CRAMER and SILBER), 1886, A., 71, 718.
- Dimethylnitrosamine (VAN ROMBURGH), 1887, A., 230.
- Dimethylorcinol dimethyl ether (KRAUS), 1891, A., 1347.
- Dimethylorcinols (KRAUS), 1891, A., 1347.
- Dimethyloxamide (MAY and ANDREASCH), 1883, A., 1018.
- dinitro- (FRANCHIMONT), 1886, A., 448.
- $\alpha\gamma$ -Dimethylisooxazole, reduction of (CLAISEN), 1892, A., 507.
- Dimethyloxetone (FITTIG and RASCH), 1890, A., 868.
- Dimethyloxetonecarboxylic acid (FITTIG and RASCH), 1890, A., 868.
- Dimethyloximidohexic acid (KIPPING and MACKENZIE), 1891, T., 586.
- Dimethyloxindole (WISPEK), 1883, A., 1096.
- Dimethyloxydihydrotoluinoxaline (HINSBERG), 1889, A., 280.
- Dimethyloxyquinizine. See Phenyl-dimethylpyrazolone.
- 3:5-Dimethylpentamethylenemethylcarbinol (PERKIN and STENHOUSE), 1892, T., 79.
- Dimethylpentanetetracarboxylic acid (PERKIN and PRENTICE), 1891, T., 830.
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- Dimethylphenanthroline (V. MILLER), 1891, A., 1105.
- Dimethylphenylacetic acid, α -nitro-, and its salts (WISPEK), 1883, A., 1096.
- Dimethylphenylenediamine (*amidodimethylaniline*), action of aldehydes on (CALM), 1885, A., 387.
- Dimethyl-*m*-phenylenediamine (GROLL), 1886, A., 347; (STAEDEL and BAUER), 1886, A., 941.
- (?)2:4:6-*trinitro*- (VAN ROMBURGH), 1888, A., 1185.
- Dimethyl-*o*-phenylenediamine, 4-nitro- (HEIM), 1888, A., 1097.
- Dimethyl-*p*-phenylenediamine (MELDOLA), 1884, T., 108; (NÖLTING and BAUMANN), 1885, A., 385.
- action of, on aldehydes (NUTH), 1885, A., 784.
- action of, on ketones (VOGTHERR), 1892, A., 854.
- Dimethylphenylenediamine mercaptan (BERNTHSEN), 1889, A., 775.
- Dimethylphenylenediaminethiosulphonic acid (BERNTHSEN), 1889, A., 776.
- Dimethylphenylene-green and -safranine (ANON.), 1884, A., 539.
- p*-Dimethyl-*o*-phthalic acid (GUCCI and GRASSI-CRISTALDI), 1892, A., 872.
- Dimethylphthalide (KOTHE), 1889, A., 257.
- Dimethyl-*o*-phthalyl-di-*d*-ecgonine (DECKERS and EINHORN), 1891, A., 476.
- 2:4-Dimethylpicolinic acid (*dimethylpyridinecarboxylic acid*) (ALTAR), 1887, A., 378.
- $\alpha\alpha'$ -Dimethylpimelic acid (KIPPING and MACKENZIE), 1890, P., 117; 1891, T., 570, 577, 587; (PERKIN and PRENTICE), 1891, T., 832.
- $\omega\omega'$ -Dimethylpimelic acid, dissociation constant of (WALKER), 1892, T., 701.

- Dimethylpimelic acids**, stereoisomeric (ZELINSKY), 1892, A., 430.
- Dimethyl- α -pipecolylammonium iodide** (MERLING), 1891, A., 1508.
- Dimethylpiperazine** [h.p. 153°—158°] (SCHMIDT and WICHMANN), 1892, A., 212.
- 7-Dimethylpiperazine** (LADENBURG), 1891, A., 1333.
- 1:2-Dimethylpiperidine** (*methyl- α -pipercoline*) (LADENBURG), 1883, A., 1154.
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- Dimethylpiperidine**, action of bromine on (MERLING), 1887, A., 164.
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- Dimethylpiperidines**, $\alpha\alpha'$ - and $\alpha\gamma$ - (LADENBURG), 1887, A., 64, 65.
- Dimethylisopropenylcarbinol**. See **Dimethyl- β -allylcarbinol**.
- Dimethylisopropylallylcarbinol** and its derivatives (DIEFF), 1883, A., 1076; (KONONOWITSCH), 1885, A., 497.
- 2:6-Dimethyl-4-propylhexahydropyridine** (*propyllutidine*) (JAECKLE), 1888, A., 1104.
- 2:6-Dimethyl-4-propylpyridine** (*propyllutidine*) (JAECKLE), 1888, A., 1104.
- Dimethylpropylpyridinedicarboxylic acid** (*propyllutidinedicarboxylic acid*) (JAECKLE), 1888, A., 1104.
- Dimethylpropylsuccinic acid** (BISCHOFF), 1891, A., 829.
- Dimethylpyridine** (*lutidine*) (LADENBURG and ROTH), 1885, A., 994.
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- 2:4-Dimethylpyridine** (HANTZSCH), 1883, A., 85; 1885, A., 397; (LADENBURG and ROTH), 1885, A., 557, 816; (LADENBURG), 1887, A., 59; (LUNGE and ROSENBERG), 1887, A., 499.
*di*bromo- (PFEIFFER), 1887, A., 845.
- 2:5-Dimethylpyridine** (LUNGE and ROSENBERG), 1887, A., 499.
- 2:6-Dimethylpyridine** (LADENBURG and ROTH), 1885, A., 557; (EPSTEIN), 1885, A., 815; 1886, A., 258; (ROTH and LANGE), 1886, A., 558; (LADENBURG), 1887, A., 59; (COLLIE), 1891, T., 177.
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- 2:6-Dimethylpyridine**, oxidation of (COLLIE), 1891, T., 178.
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- 3:5-Dimethylpyridine** (DÜRKOPF and GÖTTSCHE), 1890, A., 1002.
- Dimethylpyridinecarboxylic acid** (DÜRKOPF and GÖTTSCHE), 1890, A., 795.
- 2:4-Dimethylpyridine-3-carboxylic acid** (2:4-*lutidine-3-carboxylic acid*) (MICHAEL), 1885, A., 1244.
- 2:4-Dimethylpyridine-6-carboxylic acid** (*dimethylpácolinic acid*) (ALTAR), 1887, A., 378.
- 2:6-Dimethylpyridine-5-carboxylic acid** (2:6-*dimethylnicotinic acid*) (WEISS), 1886, A., 720.
- 2:4-Dimethylpyridine-3:5-dicarboxylic acid** (DÜRKOPF and GÖTTSCHE), 1890, A., 1002.
- 2:4-Dimethylpyridine-3:6- or -5:6-dicarboxylic acid** and its salts (MICHAEL), 1885, A., 62.
- 2:6-Dimethylpyridine-3:5-dicarboxylic acid** (ENGELMANN), 1886, A., 259.
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- Dimethylpyridines**, isomeric separation of (OECHSNER DE CONINCK), 1883, A., 740.
- 2:4-Dimethylpyridinetricarboxylic acid** and its salts (HANTZSCH), 1883, A., 85.
- 2:6-Dimethylpyridone** (*lutidone*) (CONRAD and GUTHZEIT), 1887, A., 508; (COLLIE), 1891, T., 177.
methiodide (CONRAD and ECKHARDT), 1889, A., 520.
- 2:6-Dimethylpyridone-3-carboxylic acid** (COLLIE), 1891, T., 176.
- 2:6-Dimethylpyridone-3:5-dicarboxylic acid** (CONRAD and GUTHZEIT), 1887, A., 500.
- 2:4-Dimethylpyridone**. See ψ -**Lutidostyryl**.
- Dimethylpyridylquinoline** (*lutidylquinoline*) (LEPETIT), 1887, A., 1053.
- 2:6-Dimethylpyridinetricarboxylic acid** (EPSTEIN), 1886, A., 258.
- 2:4-Dimethylpyrocoll** (MAGNANINI), 1889, A., 58.
- Dimethylpyrone** (FEIST), 1889, A., 957.
- Dimethylpyrrolidine** (CIAMICIAN and MAGNAGHI), 1885, A., 1243; (TAFEL), 1889, A., 977; (TAFEL and NEUGEBAUER), 1890, A., 1000.
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- Dimethylpyrrolidine methiodide** (CIAMICIAN and MAGNAGHI), 1885, A., 1213; (TAFEL and NEUGEBAUER), 1889, A., 1016.
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- Dimethylpyrrolidone** (TAFEL and NEUGEBAUER), 1889, A., 1016.
- 2:5-Dimethylpyrrolidyl dimethylammonium chloride** (MERLING), 1891, A., 1508.
- 2:5-Dimethylpyrroline** (KNORR), 1884, A., 1368; 1885, A., 995; (DENNSTEDT), 1889, A., 1209.
- $\alpha\beta$ -Dimethylpyrroline**, molecular weight of (MAGNANINI), 1890, A., 906.
- m*-Dimethylpyrroline**, derivatives of (MAGNANINI), 1889, A., 408.
- as*-Dimethylpyrroline**, derivatives of (MAGNANINI), 1889, A., 57.
- Dimethylpyrrolines** (DENNSTEDT), 1889, A., 1209.
- Dimethylpyrrolineacetic acid** (KNORR), 1887, A., 276.
- 2:4-Dimethylpyrroline-3-carboxylanilide** (KNORR), 1887, A., 277.
- Dimethylpyrrolinecarboxylic acid** [m.p. 197°] (KNORR), 1884, A., 1368.
- 2:4-Dimethylpyrroline-5-carboxylic acid** (MAGNANINI), 1889, A., 409.
- 2:5-Dimethylpyrroline-4-carboxylic acid** and its salts (KNORR), 1885, A., 994.
- 2:4-Dimethylpyrroline-3:5-dicarboxy-acetic acid** (KNORR), 1887, A., 276.
- 2:4-Dimethylpyrroline-3:5-dicarboxylic acid**, *mono*- and *di*-anilides of (KNORR), 1887, A., 277.
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- 2:5-Dimethylpyrroline-3:4-dicarboxylic acid** and its salts (KNORR), 1885, A., 994.
- Dimethylpyreryl styryl ketone** [m.p. 166°] (DENNSTEDT), 1889, A., 1210.
- 2:4-Dimethylpyreryl styryl ketone** (DENNSTEDT), 1889, A., 1209.
- 2:5-Dimethylpyreryl-*m*-benzoic acid** (PAAL and SCHNEIDER), 1886, A., 559.
- Dimethylpyrylene diketone** (*di- ψ -acetylpyrroline*) (CIAMICIAN and DENNSTEDT), 1885, A., 378; (CIAMICIAN and SILBER), 1885, A., 808, 993; 1886, A., 74.
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- 2:5-Dimethylpyreryl-*o*-phenol** (PAAL and SCHNEIDER), 1886, A., 559.
- Dimethylquercitin**. See Rhamnetin.
- Dimethylquinitol** (v. BAEYER), 1892, A., 1183.
- Dimethylquinogen** and its derivatives (v. PECHMANN), 1888, A., 813.
- Dimethylquinol**. See Xyloquinol.
- 1:2'-Dimethylquinoline** (*o-toluquinaldine*, oxidation of (v. MILLER), 1891, A., 1095.
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- 1:3-Dimethylquinoline** (*xyloquinoline*, 4-amido- (NÖLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
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- 1:4-Dimethylquinoline** (LELLMANN and ALT), 1887, A., 502.
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- 2:2'-Dimethylquinoline** (*methylquinaldine*) (RIST), 1891, A., 329.
- 2:3'-Dimethylquinoline** (ROHDE), 1887, A., 974; 1889, A., 523; (ELIASBERG and FRIEDLÄNDER), 1892, A., 1107.
- 2:4-Dimethylquinoline** (BEREND), 1885, A., 274.
- 2':4'-Dimethylquinoline** (BEYER), 1885, A., 1246; 1886, A., 629; (COMBES), 1888, A., 505.
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- 3:4- or 2:3-Dimethylquinoline**, and its derivatives (BEREND), 1884, A., 1197.
- 3:4'-Dimethylquinoline** (*4'-methyl- β -toluquinoline*) (v. MILLER), 1890, A., 1325.
- Dimethylquinolines** and their derivatives (DOERNER and v. MILLER), 1884, A., 184.
- Dimethylquinolines**, 3':4'-, 4':1- and 2:1'- (KNORR), 1888, A., 1112.
- 1:2'-Dimethylquinoline-3-carboxylic acid** (PANAJOTOW), 1887, A., 382.
- o-p*-Dimethylquinoline- α -carboxylic aldehyde** (PANAJOTOW), 1890, A., 1158.
- 1:3-Dimethylquinolinesulphonic acid** (PANAJOTOW), 1887, A., 382.
- 1:4-Dimethylquinolinesulphonic acids** (*1:4-xyloquinolinesulphonic acids*) (NÖLTING and FRÜHLING), 1889, A., 164.

- 1':2'-Dimethyl-4'-quinolone (*dimethyl- ψ -quinone*). See 4'-Hydroxy-1':2'-dimethylquinoline.
- 1':1'-Dimethylquinolone (*methylpido-*one) (KNORR), 1887, A., 159.
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- Dimethylquinolthiocarbamide (BAESSLER), 1884, A., 1330.
- Dimethylquinoltrimethylammonium iodide (BAESSLER), 1884, A., 1329; 1887, A., 364.
- 1:3-Dimethylquinolyl- α -acrylic acid (PANAJOTOW), 1887, A., 382.
- Dimethylquinophenol (BEREND), 1884, A., 1197.
- Dimethylquinoxaline (*methyltoluquin-oxaline*) (HINSBERG), 1886, A., 561.
- 3':4'-Dimethylquinoxaline, tetrachloro- (LEVY, WITTE and CURCHOD), 1890, A., 232.
- 3':4'-Dimethylquinoxaline-*m*-carboxylic acid (ZEHRA), 1891, A., 303.
- Dimethyl- $\delta\psi$ -quinoxalines, $\alpha\beta$ - and $\beta\gamma$ - (WEDDIGE), 1887, A., 1044.
- Dimethylracemic acid (FITTIG, DAIMLER and KELLER), 1889, A., 491; (BÖTTINGER), 1892, A., 698.
- Dimethylresorcinol (2:4-*dihydroxy-m-xylene*) (WISCHIN), 1891, A., 74.
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- Dimethylresorcylic pentadecyl ketone (KRAFFT), 1888, A., 1087.
- Dimethyl- α -resorcylic acid, amido- and nitro- (MEYER), 1888, A., 148.
- Dimethyl- β -resorcylic acid (V. PECHMANN and DUISBERG), 1884, A., 67; (V. PECHMANN and COHEN), 1884, A., 1331.
- Dimethylrubbadin (SCHALL and UHL), 1892, A., 1077.
- Dimethylsafranine hydrochloride (MENTON), 1891, A., 1205.
- p*-Dimethylstilbene (ANSCHÜTZ and WIRTZ), 1885, T., 901; A., 1064.
- Dimethylstilbene sulphide, diamido- (ANSCHÜTZ and SCHULTZ), 1889, A., 602.
- Dimethylstrychnine (TAFEL), 1890, A., 1448.
- iso*Dimethylstrychnine (TAFEL), 1891, A., 1264.
- 3-Dimethylsuccinamic acid, α -dichloro- (OTTO and HOLST), 1890, A., 958.
- Dimethyl*iso*succinamide (FRANCHIMONT), 1886, A., 449.
- Dimethylsuccinic acid (BISCHOFF and JAUNSNICKER), 1891, A., 290.
- as*-Dimethylsuccinic acid (LEVY and ENGLÄNDER), 1888, A., 133; (BARNSTEIN), 1888, A., 135; (BISCHOFF and V. KÜHLBERG), 1890, A., 742.
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- p-s*-Dimethylsuccinic acid (*hydropyrocinchonic acid*) (BISCHOFF and RACH), 1885, A., 885; 1886, A., 1012; (OTTO and RÖSSING), 1888, A., 45.
- s*-Dimethylsuccinic acid, α -dichloro-substitution products of (OTTO and HOLST), 1890, A., 957.
- Dimethylsuccinic acids, action of bromine on (HELL and ROTHBERG), 1889, A., 371.
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- as*- and *s*- (LEUCKART), 1885, A., 1200.
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- s*-Dimethylsuccinic acids (OTTO and BECKURTS), 1885, A., 754; (BISCHOFF and RACH), 1885, A., 885; 1886, A., 1012; (BISCHOFF and VOIT), 1889, A., 490; 1890, A., 743.
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- as*-Dimethylsuccinic anhydride (BARNSTEIN), 1888, A., 135.
- s*-Dimethylsuccinic anhydride, α -dichloro- (OTTO and HOLST), 1890, A., 957.
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- Dimethylsuccinimidine hydrochloride (PINNER), 1883, A., 1089.
- Dimethylsuccinonitrile (HELL and ROTHBERG), 1889, A., 959.
- s*-Dimethylsulphonamide (FRANCHIMONT), 1885, A., 969.

- s*-Dimethylsulphonamide, *d*-nitro- (FRANCHIMONT), 1885, A., 969.
- Dimethylsulphonamides, action of nitric acid on (FRANCHIMONT), 1885, A., 969.
- Dimethylsulphonedicarboxylic acid. See Sulphonediacetic acid.
- Dimethylsulphone-diethyl- and -dimethyl-methanes (BAUMANN and KAST), 1889, A., 1233.
- Dimethylsulphonemethylmethane (BAUMANN and KAST), 1889, A., 1233.
- Dimethyl-tartaramide and -tartarimide, *tetrachloro*- (LEVY, WHITE and CURCHOD), 1890, A., 233.
- Dimethyltaurine, preparation of (JAMES), 1885, T., 370.
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- 2:5-Dimethylterephthalic acid (CLAUS), 1890, A., 982.
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- Dimethyl- β -tetrahydronaphthylamines, aromatic and alicyclic (BAMBERGER and MÜLLER), 1889, A., 890, 891.
- 1:2-Dimethyl- Δ^2 -tetrahydropyridine (LIPP), 1892, A., 1243.
- Dimethyltetrahydroquinoline (FISCHER and STECHE, 1887, A., 976; ZATTI and FERRATINI), 1892, A., 614.
- 1:2'-Dimethyltetrahydroquinoline (DOEBNER and V. MILLER), 1884, A., 183; (MÖLLER), 1888, A., 297.
- 1:3-Dimethyltetrahydroquinoline (BAMBERGER and WULZ), 1891, A., 1255.
- 1:3'-Dimethyltetrahydroquinoline (FISCHER and STECHE), 1887, A., 976.
- 1:4-Dimethyltetrahydroquinoline (BEREND), 1886, A., 261.
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- $\alpha\beta$ '-Dimethyltetramethylenediamine (CIAMICIAN and ZANETTI), 1890, A., 1155; 1891, A., 1503.
- as*-Dimethyltetraphenylethane (WILLGERODT and SCHIFF), 1890, A., 959.
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- $\alpha\alpha$ '-Dimethylthiazole (HANTZSCH), 1888, A., 574.
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- as*-Dimethylthiocarbamide (SPICA and CARRARA), 1892, A., 216.
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- Dimethylthiohydantoin (MARCKWALD, NEUMARK and STELZNER), 1892, A., 151.
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- 2:5-Dimethylthiophen, synthesis of (PAAL), 1885, A., 1205.
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- Dimethyltrimethylenedisulphone-sulphide** (CAMPS), 1892, A., 593.
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- $\alpha\beta$ -Dimethylumbelliferone** (v. PECHMANN and DUISBERG), 1884, A., 67.
- β -6-Dimethylumbelliferone** (v. PECHMANN and COHEN), 1885, A., 56.
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- Dimethylxanthone** (WEBER), 1892, A., 1093.
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- Dimethylxylylidines** (VOM BAUR and STAEDEL), 1883, A., 579.
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- Dimethylxylylphosphine** (CZIMATIS), 1883, A., 58.
- α -Dinaphthadiquinone** (ELSBACH), 1883, A., 70.
- β -Dinaphthalene oxide** (WALDER), 1883, A., 209.
- β -Dinaphthenylimidine** (PINNER), 1892, A., 1110.
- α -Dinaphthylbenzil** (BANDROWSKI), 1889, A., 147.
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- β -Dinaphthol** (WALDER), 1883, A., 208; (JULIUS), 1888, A., 161.
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- α -Dinaphtholbenzylidenesulphonic acid**, barium salt of (KAFKA), 1891, A., 721.
- β -Dinaphtholdisulphonic acid**, barium salt of (JULIUS), 1888, A., 161.
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- Dinaphthoylhydroxamic acids**, $\alpha\alpha$ -, $\beta\beta$ -, and $\alpha\beta$ - (EKSTRAND), 1887, A., 840.
- $\alpha\alpha$ -Dinaphthyl** (WALDER), 1883, A., 209; (WEGSCHEIDER), 1884, A., 1185.
- $\alpha\beta$ -Dinaphthyl** (WEGSCHEIDER), 1884, A., 1185.
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- β -Dinaphthyl ketone**, boiling point of (SCHWEITZER), 1891, A., 1240.
- β -Dinaphthyl ketone oxide** (CLAUS and RUPPEL), 1890, A., 510.
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- Dinaphthylamidinecarbamide** (PINNER), 1892, A., 1008.
- Di- α -naphthylamidocyanuric chloride** (FRIES), 1886, T., 315, 740.
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- $\alpha\beta$ -Dinaphthylamine**, behaviour of, when combining with diazobenzene (MATTHES), 1890, A., 385.
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- Di- β -naphthylamine**, *tetrabromo-* (RIS), 1888, A., 57.
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- β -Dinaphthylcarbamic chloride** (KYM), 1890, A., 633, 993; (KÜHN and LANDAU), 1890, A., 634, 1311.
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- u*-Di- β -naphthylcarbamide**, *thio-* (PASCHKOWETZKY), 1892, A., 166.
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- α -Dinaphthyldiketodihydro-*p*-diazine** (ABENIUS), 1890, A., 269.
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- β -Dinaphthyl- $\alpha\gamma$ -diketopiperazine** (BISCHOFF and HAUSDÖRFER), 1890, A., 1309; 1892, A., 1342.
- β -Dinaphthyl- $\alpha\gamma$ -dimethyl- $\beta\delta$ -diketopiperazine** (BISCHOFF and HAUSDÖRFER), 1892, A., 1337.
- as*-Di- β -naphthyldiphenylcarbamide**, *thio-* (PASCHKOWETZKY), 1892, A., 165.
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- Di- α -naphthylethylenediamine**, action of chloroacetic and oxalic acids on (BISCHOFF and NASTVOGEL), 1890, A., 1162.
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- s*-Dinaphthylhydrazine** (*hydrazo-naphthalene*) (NIETZKI and GOLL), 1886, A., 245.
- Dinaphthylie hydrochloride diimido-** (JULIUS), 1887, A., 56.
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- $\alpha\beta$ -Dinaphthylie sulphide** (KRAFFT), 1890, A., 1312.
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- disulphide*, *diimido-* ($\text{NH}_2\text{:S}=1\text{:}4'$) (EKBOM), 1890, A., 994.
- aa*-Dinaphthylie sulphoxide** (EKSTRAND), 1885, A., 171; (KRAFFT), 1890, A., 1311.
- Dinaphthylie** (NIETZKI and GOLL), 1886, A., 245.
- Di- β -naphthylketoneoxidesulphonic acid**, barium salt of (CLAUS and RUPPEL), 1890, A., 510.
- Dinaphthylmethane** (CLAUS and RUPPEL), 1890, A., 511.
- β -Dinaphthylmethylamine** (RIS), 1888, A., 57.
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- Dinaphthylmethylcyanidine** (PINNER), 1892, A., 1110.
- Dinaphthyl-naphthalene** (ROUX), 1888, A., 1305.
- α -Dinaphthylparabanic acid** (EVERS), 1888, A., 602.
- β -Dinaphthylphenylcarbamide** (GEBHARDT), 1885, A., 384; (KÜHN and LANDAU), 1890, A., 634.
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- α -Dinaphthylphenylcarbinol** (ELBS and STEINKE), 1886, A., 947; (ELBS), 1887, A., 943.

- β*-Dinaphthyl-*p*-phenylenediamine** and its derivatives (RUEFF), 1889, A., 894.
- Dinaphthylphenylmethane** (ELBS), 1887, A., 943.
- iso*-**Dinaphthylquinone** (STAUB and SMITH, 1885, T., 104).
- α*-Dinaphthylpiperazine** (BISCHOFF), 1889, A., 1011.
- β*-Dinaphthylpiperazine** (BISCHOFF and HAUSDÖRFER), 1890, A., 1333.
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- β*-Dinaphthylthio-carbazide** and **-carbazone** (FREUND), 1892, A., 513.
- Dinaphthylthiohydantoin**, *α*- and *β*- (EVERS), 1888, A., 602.
- Dinicotinic acid** (*pyridine-3:5-dicarboxylic acid*) (HANTZSCH and WEISS), 1886, A., 478.
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- Dioctoic acid** (*hexadecoic acid*) (CANZONERI), 1884, A., 462.
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- Dioxal-*p*-toluidide** and **dioxanilide** (ABENIUS), 1890, A., 525.
- Dioximes**, action of phenylhydrazine on (POLONOWSKY), 1888, A., 366.
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- Dioxydehydro nicotinic**, *di*bromo- (PINNER), 1892, A., 1497.
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- Dioxydibenzylidene*di*thioamide** (EPHRAIM), 1891, A., 831.
- Dioxydiethylaniline** (HOLZMANN), 1887, A., 723.
- Dioxydimethylaniline** (MERZ and WEITH), 1886, A., 792.
- Dioxydimethylanthraquinone** (*dimethylanthraflavic acid*) and its acetyl-derivative (v. KOSTANECKI and NIEMENTOWSKI), 1885, A., 1240.
- Dioxydiphenylene**, *perchloro-* (HUGONENQ), 1889, A., 1150.
- Dioxymethyl-*m*-diazine**. See Methyluracil.
- Dioxymethylene-2'-methylquinoline** (HAEBER), 1891, A., 705.
- Dioxymethylenepherylglyoxylic acid** (CIAMICIAN and SILBER), 1890, A., 966.
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- Dioxymethylenephenyloximidoacetic acid** (GARELLI), 1892, A., 327.
- Dioxyphenazine** (NIETZKI and HASTERLIK), 1891, A., 944.
- Dioxyphenylmethylpyrazoleoxime** (*isonitrosomethylglyoxyquinazinc*) (KNORR), 1884, A., 1379.
- Dioxyretistene** (BAMBERGER), 1884, A., 1040; (EKSTRAND), 1884, A., 1041.
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- Dioxythiodiphenylimide** (BERNSTEIN), 1886, A., 55.
- "Dioxythiophenetoil"** (TASSINARI), 1892, A., 1316.
- Dioxytrimethylpyrrole** (WEIL), 1886, A., 528.

- Dipalmitylcarbinyl acetate** (KIPPING), 1890, T., 987.
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- Dipentamethylbenzenethiocarbamide** (V. HOFMANN), 1885, A., 1129.
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- Dipentenylbenzene** (DAFERT), 1883, A., 1094.
- Diphellandrene** (PESCI), 1886, A., 1038.
- Diphenacyl** (*diphenylethylene diketone; succinophenone*), (CLAUS and WERNER), 1887, A., 827; (AUGER), 1888, A., 952; (KAPF and PAAL), 1889, A., 147.
- Diphenacylacetic acid** (KUES and PAAL), 1887, A., 261.
- Diphenacyldiphenyldihydrazone** (KAPF and PAAL), 1889, A., 147.
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- Diphenamic acid and diphenamide** (WEGERHOFF), 1888, A., 1201; (GRAEBE and AUBIN), 1889, A., 145.
- Diphenanthryleneazotide** (JAPP and BURTON), 1887, T., 101.
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- "Diphenesuccindone"** and its derivatives (ROSER), 1888, A., 1301.
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- 6-Diphenol** (HODKINSON and MATTHEWS), 1883, T., 169; (LIMPRICHT), 1891, A., 930.
- p*-Diphenol**, derivatives of (SCHULTZ), 1889, A., 402.
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- p*-Diphenoldicarboxylic acid** (SCHMITT and KRETZSCHMAR), 1888, A., 56.
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- γ -Diphenoxypropylamine** (LOHMANN), 1891, A., 1467.
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- Diphenyl benzyl and dibenzyl ketones** (PÄPKE), 1888, A., 701.
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- Diphenyl tetraketone** (ABENIUS and SÖDERBAUM), 1892, A., 69.
- Diphenyl triketone** (*dibenzoyl ketone*) (V. PECHMANN), 1889, A., 712; (DE NEUFVILLE and V. PECHMANN), 1891, A., 318.
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- "**Diphenyl triketone hydrate**" (DE NEUFVILLE and V. PECHMANN), 1891, A., 319.
- Diphenylacediamine**, action of carbonyl chloride on (LOEB), 1885, A., 1213.
- Diphenylacetaldehyde**, derivatives of (WEISE), 1889, A., 253.
- Diphenylacetaldehydediphenylhydrazone** (RUDOLPH), 1889, A., 251.
- Diphenylacetaldoxime** (AUWERS), 1891, A., 1070.
- Diphenylacetic acid**, derivatives of (BICKEL), 1889, A., 999.
- Diphenylacetic chloride** (BICKEL), 1889, A., 999.
- Diphenylacetoneitrile** (ANSCHÜTZ and ROMIG), 1886, A., 1034; (ZINSSER), 1892, A., 344; (MICHAEL and JEAN-PRÊTRE), 1892, A., 1094.
- iso***Diphenylacetoneitrile** (ANSCHÜTZ and ROMIG), 1886, A., 1034.
- Diphenylacetoxime.** See Benzophenone-oxime.
- Diphenylacetyl** (ADAM), 1887, A., 589.
- Diphenylacetylene** (*tolane*), hydration of (BÉHAL), 1888, A., 959.
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- Diphenylacetylene** (*tolane*), *p*-*dinitro-* (ELBS and BAUER), 1887, A., 152.
- Diphenylacetylenediureine** and its derivatives (ANGELI), 1890, A., 1290.
- Diphenylacetylenic alcohol** (JAFF and OWENS), 1885, T., 90.
- Diphenylacetylene dibenzoate** (KILNGER and STÄNDKE), 1891, A., 931.
dichlorides WISLIZENUS and BLANK), 1889, A., 262; (REIZKO), 1890, A., 783.
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sulphide (BAUMANN and KLETT), 1892, A., 185.
- Diphenylaldine** **platinochloride** (SCHMIDT), 1890, A., 373.
- Diphenylamidine** (V. HOFMANN), 1887, A., 1040.
- Diphenylamide-**. See Diamido-.
- Diphenyl-1:3:4-triamidobenzene**, condensation of, with benzoïn (FISCHER), 1891, A., 748.
- Diphenyldiamidomethylene-*o*-phenylenediamine** (MOORE), 1889, A., 983.
- Diphenyldiamidomethylenephenyl-*o*-phenyleneguanidine** (KELLER), 1891, A., 1469.
- Diphenylamidophenylene** (LIMPRICHT and V. RECHENBERG), 1890, A., 158.
- $\alpha\beta$ -Diphenyl- μ -amidothiazole** (HUBACHER), 1891, A., 222.
- Diphenyl-*m*-amido-*p*-tolylcarbamide** (LELLMANN and BONHÖFFER), 1887, A., 936.
- $\alpha\beta$ -Diphenyl- μ -amidoazole** (ANSCHÜTZ and GELDERMANN), 1891, A., 725.
- Diphenylamine**, formation of, from aniline and phenol (BUCH), 1885, A., 147.
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- Diphenylamine**, action of nitrous anhydride on (FRIEDBERG and MANDEL), 1890, A., 1401.
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- Diphenylamine** arsenious bromide (LANDAU), 1889, A., 211.
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- Diphenylamine**, amido-. See Phenylphenylenediamine.
 2:4-*diamido*- (KEHRMANN and MES-SINGER), 1892, A., 1109.
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 5-chloro-2-amido- (ERNST), 1891, A., 299.
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o-nitro- (SCHOFFE), 1889, A., 773; 1890, A., 1113.
*tri*nitro- (NORTON and ALLEN), 1885, A., 1214.
 1:1:2:2-*tetranitro*- (HAGER), 1885, A., 150.
d-nitramido- (NIETZKI and ERNST), 1890, A., 1114.
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*d*ithio- (HOLZMANN), 1888, A., 1080.
- Diphenylaminealloxan** (PELLIZZARI), 1888, A., 682.
- Diphenylamine-*o*-carboxylic acid**, *di*-nitro-, and its derivatives (JOURDAN), 1885, A., 988.
- Diphenylamine-*p*-carboxylic acid**, *m*-nitro- (SCHOFFE), 1890, A., 374.
- Diphenylamine-*o*:*p*-disulphonic acid** (FISCHER), 1892, A., 333.
- Diphenylaminofumaride** (PIUTTI), 1886, A., 621.
- Diphenylaminophthalein** and its derivatives (PIUTTI), 1884, A., 451; 1885, A., 783.
- "Diphenyl- ψ -amphiphenacylnitrile"** and its nitroso- and nitro-derivatives (MÖHLAU), 1885, A., 560.
- Diphenylisocamylsemithiocarbazide** (PHILIPS), 1889, A., 1159.
- Diphenylanthracene dibromide** and dihydride (LINEBARGER), 1892, A., 720.
- Diphenylarsine trichloride** (MICHAELIS and SCHULTE), 1883, A., 187.
- Diphenylasparagine** (PIUTTI), 1886, A., 621.
- Diphenylazo-**. See under Azo-.
- Diphenylbenzenylamidine** (NÜLTING and WEINGÄRTNER; KÜHN), 1885, A., 979.
- α -Diphenyl- β -benzoylpropionic acid** (JAPP and KLINGEMANN), 1890, T., 681.
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- Diphenylbenzoylpropionic acid**, ethylamide and methylamide of (JAPP and KLINGEMANN), 1890, T., 706, 703.
- Diphenylbenzylacetic acid**, and nitrile of (NEFRE), 1889, A., 597.
- Diphenylbenzylidenemaleide** and its derivatives (GABRIEL and COHN), 1892, A., 179; (COHN), 1892, A., 483.
- Diphenylisobenzylidenemaleide** (COHN), 1892, A., 186.
- Diphenylbenzylidenemaleimidine** (COHN), 1892, A., 484.
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- Diphenylisobenzylidenemaleimidine** (COHN), 1892, A., 186.
- Diphenylbenzylidenemaleinethy-*l*-imidine** (COHN), 1892, A., 181.
- 1:3-Diphenylbenzylidene-5-pyrazolone** (KNORR and KLOTZ), 1887, A., 1121.

- Diphenylbenzylmaleide** and its derivatives (COHN), 1892, A., 484.
- Diphenylbenzyl-maleimidine** and -maleinethylimidine (COHN), 1892, A., 484, 485.
- Diphenylbenzylphosphine** chloride (DÖRKEN), 1888, A., 832.
oxide and dichloride (MICHAELIS and LA COSTE), 1885, A., 1215.
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- Diphenylbenzylsemithiocarbazide** (PHILIPS), 1889, A., 1159.
- Diphenylbenzylthiourea** (WERNER), 1892, P., 97.
- Diphenylbismuthine** bromide (MICHAELIS and MARQUARDT), 1889, A., 1061.
- Diphenylbromobenzylidenemaleide** (COHN), 1892, A., 483.
- Diphenylbromodinitroresorcinol** (JACKSON and WARREN), 1891, A., 1026.
- Diphenylbromotoluinoxaline** (HARTMANN), 1890, A., 976.
- Diphenyl-butane** and -butylene (FREUND and IMMERWAHR), 1890, A., 1409, 1408.
- Diphenylbutylenediamine** (COLSON), 1888, A., 139.
- Diphenylisobutylglyoxaline** (JAPP and WYNNE), 1886, T., 467.
- Diphenylisobutylsemithiocarbazide** (PHILIPS), 1889, A., 1159.
- Diphenylbutyric acid** (JANSSEN), 1889, A., 596.
- Diphenylbutyrolactone** (AUGER), 1888, A., 952.
- Diphenylbutyronitrile** (JANSSEN), 1889, A., 596.
- Diphenylcarbamic acid**, thio-, derivatives of (FRAENKEL), 1885, A., 1130.
- Diphenylcarbamic chloride**, thio- (PASCHKOWETZKY), 1892, A., 164.
- s-Diphenylcarbamide** (*carbanilide*) (HENTSCHEL), 1883, A., 1107.
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- s-Diphenylcarbamide, m-amido-** (LEUCKART), 1890, A., 760.
bromo- (GATTERMANN and CANTZLER), 1892, A., 833.
m-nitro- (LEUCKART), 1890, A., 760.
p-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1285; (LEUCKART), 1890, A., 760.
m-dinitro- (LOSANITSCH), 1883, A., 583.
- Diphenylcarbamide, p-bromo-** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diphenylcarbamide, m- and p-chloro-** (GOLDSCHMIDT and BARDACH), 1892, A., 979.
- as-Diphenylcarbamide, thio-** (PASCHKOWETZKY), 1892, A., 164.
- Diphenylcarbamededicarboxylic acid** (TRAUBE), 1883, A., 194.
- Diphenylcarbazine** (SKINNER and RUHEMANN), 1888, T., 551; A., 274.
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- Diphenylcarbazone** (HELLER), 1891, A., 1212.
- Diphenylcarbinol**. See Benzhydrol.
- p-Diphenylcarboxyanilide** (LEUCKART), 1890, A., 759.
- o-Diphenylcarboxylic acid**, condensation of (GRAEBE and AUBIN), 1887, A., 589.
- Diphenylcarboxylic acid, dibromo-** [m.p. 212°] (HOLM), 1883, A., 922.
- Diphenylcarboxylic acids, m- and p-** and salts of (BARTH and SCHREDER), 1883, A., 468.
- Diphenylcarboxylic acids, dibromo-** [m.p. 204° and 232°] (CARNELLEY and THOMSON), 1885, T., 589; P., 88.
- Diphenyltrichlorethane** and its homologues (ELBS and FÖRSTER), 1889, A., 713.
- Diphenyldichlorodiketo-p-diazine** (ABENIUS), 1890, A., 526.
- Diphenylchloroformamide**, compounds from (LELLMANN and BENZ), 1891, A., 1214.
- Diphenylchloromethyltrimethylcarbinol** (WILGERODT and GENIESER), 1888, A., 811.
- αβ-Diphenyleinchonic acid** (PFITZINGER), 1889, A., 413.
- Diphenylcrotonolactone** (KLINGEMANN), 1892, A., 1002.
- Diphenylcyanamide** (WERNER), 1892, P., 96.
- Diphenylcyanethylidene** (CHAUTARD), 1888, A., 810.
- Diphenylcyanine chloride** (KLASON; v. MEYER), 1887, A., 363.
- Diphenyltricyanocarboxylic acid** (KRAFFT and KOENIG), 1890, A., 1252.
- Diphenylcyanotriazole** (BLADIN), 1889, A., 702.
- Diphenyl-o-isocyanuric acid** (v. HOFMANN), 1886, A., 234.
- Diphenyldiaceto-o-tolylenediamine** (BISTREZYCKI and CYBULSKI), 1891, A., 694.
- Diphenyldiacetylene** (HOLLEMAN), 1888, A., 261.

- Diphenyldiisoamyltetrazone** (PHILIPS), 1889, A., 1159.
- 2:6-Diphenyl-*m*-diazine**, 4-amido-, formation of (SCHWARZE), 1890, A., 1159.
- s*-Diphenyldibenzylsuccinonitrile** (CHALANEY and KNOEVENAGEL), 1892, A., 619.
- Diphenyldibutynyl ketone**, *p*-nitro- (EINHORN and GEHRENBEEK, 1890, A., 162).
- Diphenyldiisobutyltetrazone** (PHILIPS), 1889, A., 1159.
- Diphenyldiisobutyrylglyoxime** (AUWERS and MEYER, 1888, A., 598).
- Diphenyl-*o*-*p*-dicarboxylic acid** (REULAND, 1890, A., 167).
- Diphenyl-*m*-dicarboxylic acid**, *dichloro*- (STOLLE), 1888, A., 700.
- Diphenyl- α -diethyl- β -diketopiperazines** (NASTVOGEL), 1889, A., 1013; 1890, A., 1160.
- Diphenyldiethylene** (REBUFFAT), 1885, A., 1137.
and its derivatives (REBUFFAT), 1891, A., 76.
- Diphenyldiethyl-oxamide and -thiocarbamide** (NEUBERT), 1886, A., 874, 873.
- s*-Di-*p*-phenyldiethylthiocarbamide** (MAINZER), 1883, A., 1106.
- p*-Diphenyldiguanide** (EMICH), 1891, A., 1180.
- Diphenyldihydrazimethylene** (CURTIUS and THUN, 1891, A., 1357).
- Diphenyldihydrazine** (ARHEIDT), 1887, A., 958.
- 2:3-Diphenyl-5:6-dihydropyrazine** (MASON), 1887, A., 493; 1889, T., 98.
- aa*-Diphenyldihydropyridine- γ -carboxylic acid** (PAAL and STRASSER), 1888, A., 62.
- 3':4'-Diphenyldihydroquinoxaline** (FISCHER, 1891, A., 747).
- Diphenyldihydroxylamine** (FISCHER and HEPP, 1887, A., 1115).
- Diphenyldiisindole**, and its salts (MÖHLAU, 1883, A., 342.
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- Diphenyldiisindoleazo-**. See under Azo.
- Diphenyldiisindolesulphanilic acid** (MÖHLAU, 1883, A., 343).
- Diphenyldiketodihydropyrazine** (ABENIUS, 1890, A., 268).
- Diphenyldiketopiperazine** and its derivatives (BISCHOFF, 1888, A., 726; (ABENIUS), 1888, A., 854.
- Diphenyl- α - β -diketopiperazine** (BISCHOFF and NASTVOGEL), 1889, A., 1015; 1890, A., 1161.
- Diphenyl- α -diketopiperazine** (HAUSDÖRFER, 1889, A., 1013; (BISCHOFF and HAUSDÖRFER), 1890, A., 1332.
homologues of (NASTVOGEL), 1889, A., 1012.
- Diphenyl- α -diketopiperazine** (HAUSDÖRFER), 1889, A., 1014; (BISCHOFF and HAUSDÖRFER), 1890, A., 1333.
- Diphenyl- α - γ -diketopiperazine- β -homocarboxylic acid** (BISCHOFF and NASTVOGEL), 1890, A., 1162.
- Diphenyldiketopyrazine** (ABENIUS), 1890, A., 526.
- Diphenyldimethyl** (ADAM), 1888, A., 959.
- Diphenyldimethylaldine** (SCHMIDT), 1890, A., 373.
- Diphenyldimethyl-*l*-amidomethylene-*o*-phenylenediamine** (MOORE), 1890, A., 246.
- Diphenyldimethylazimethylene** (CURTIUS and RAUTERBERG), 1891, A., 1359.
- Diphenyl- α - γ -dimethyl- β -diketopiperazine** (NASTVOGEL), 1889, A., 1012.
- Diphenyl- α - γ -dimethyl- β -diketopiperazines**, isomorphism of (NASTVOGEL), 1890, A., 1160.
- Diphenyldimethylenediamine** (PRATEST), 1885, A., 782.
- Diphenyldimethylindole** (ARHEIDT), 1887, A., 958.
- Diphenyldimethylmalonamide** (FREUND), 1884, A., 729.
- Diphenyldimethylphosphonium iodide** (DÖRKEN), 1888, A., 833.
- Diphenyldimethylpyrazoloneacetic acid** (PELLIZZARI), 1890, A., 645.
- s*-Diphenyldimethylsuccinonitrile** (CHALANEY and KNOEVENAGEL, 1892, A., 619).
- 2:3-Diphenyl-1:4-dimethyltetrahydropyrazine** (MASON, 1889, T., 101).
- Diphenyldimethylthiocarbamide** (STAHEL, 1890, A., 1260).
- Diphenyldinitrosacyl** (HOLLEMAN, 1889, A., 50).
- Diphenyldiphenylenedicarbamide** (KUN, 1885, A., 979).
- 3-Diphenyl-4:5-diphenyl-1-methylpyrrolone** (KINGEMANN, 1891, A., 736).
- Diphenyldipropylguanidine** (FRANKSEN, 1884, A., 1008).
- Diphenyldiisopropyltetrazone** (PHILIPS, 1889, A., 1159).
- Diphenyldipyridazine** (CIAMICIAN and ZANETTI), 1891, A., 1502.

- Diphenyldisulphine**, *m*-*d*initro- (EKBM), 1891, A., 567.
- Diphenyldisulphonic acid** and its derivatives (LIMPRICHT), 1891, A., 930.
amido- (LIMPRICHT), 1891, A., 930.
bromamido- (LIMPRICHT), 1891, A., 929.
- iso***Diphenylene**, new reaction of (JULIUS), 1884, A., 1181.
- Diphenylene ketone** (CARNELLEY and DUNN), 1888, P., 53; A., 1095.
bromo- (CLAUS and ERLER), 1887, A., 269.
*di*bromo- (HODGKINSON and MATTHEWS), 1883, T., 165; (HOLM), 1883, A., 921; (CLAUS and ERLER), 1887, A., 269.
- Diphenylene ketone oxide**. See Xanthone.
- Diphenylene ketoxime** (SPIEGLER), 1884, A., 1182; (WEGERHOFF), 1889, A., 1067.
- Diphenyleneazone** (TÄUBER), 1892, A., 184, 482.
mono- and *di*-oxides of (TÄUBER), 1892, A., 183.
diamido- (TÄUBER), 1892, A., 184.
- Diphenylenebisazo-dimethylaniline**, β -naphthol and -resorcinol (REULAND), 1890, A., 167.
- Diphenylenediacetonehydrazine** (ARHEIDT), 1887, A., 958.
- p*-**Diphenylenediamine** (TÄUBER), 1892, A., 481.
- Diphenylenediethylidene**, synthesis of, from benzene and ethylenic chloride (ANGELIS and ANSCHÜTZ), 1884, A., 753.
- Diphenylenedihydrazinepyruvic acid** (ARHEIDT), 1887, A., 958.
- Diphenylenedimethyl *disulphide*** (OBERMEYER), 1888, A., 125.
- Diphenylenedisemicarbazine** (ARHEIDT), 1887, A., 958.
- Diphenylenediurethane** (SNAPE), 1886, T., 256; P., 158.
- Diphenylenehydrazone** (TÄUBER), 1892, A., 184.
- Diphenylenehydroxydihydroanthraquinone** (LIEBERMANN and BERGMANN), 1890, A., 515.
- Diphenyleneketonecarboxylamide** (WEGERHOFF), 1888, A., 1201.
- Diphenyleneketonecarboxylic acid** (BAMBERGER and HOOKER), 1885, A., 906, 1070; (GRAEBE and AUBIN), 1887, A., 589.
- o*-**Diphenyleneketonecarboxylic acid** (GRAEBE and AUBIN), 1889, A., 145.
- Diphenyleneketonedicarboxylic acid** (BAMBERGER and HOOKER), 1885, A., 906.
- Diphenyleneketoximedicarboxylic acid** (BAMBERGER and HOOKER), 1885, A., 906.
- Diphenylenemethane sulphide and sulphone** (GRAEBE and SCHULESS), 1891, A., 1059.
- Diphenylenenaphthaquinoxalinesulphonic acid**, sodium salt of (WITT), 1886, A., 889.
- Diphenylene-*m*-phenylenediamine**, amido- (FISCHER and HEPP), 1890, A., 614.
- p*-**Diphenylene- α -tetramethyldipyrrole** (PAAL and SCHNEIDER), 1887, A., 273.
- Diphenylenetoluquinoxaline** (HINSBERG), 1884, A., 1053.
- Diphenylenic *di*socyanate** (SNAPE), 1886, T., 255.
oxide (GALEWSKY), 1891, A., 1234.
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diamido- (GALEWSKY), 1891, A., 1234.
- s*-**Diphenylethane** (*dibenzyl*) (ANSCHÜTZ), 1883, A., 807.
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derivatives of (HEUMANN and WIERNIK), 1887, A., 673.
- Diphenylethane**, *di*-*o*-chlorodinitrosyl- (BEHREND and NISSEN), 1892, A., 1200.
p-*d*initro-, preparation of (ROSER), 1887, A., 836.
o-*d*initrocyano- (BAMBERGER), 1887, A., 131.
di-*p*-nitrodinitrosyl- (BEHREND and KÖNIG), 1891, A., 1032.
- as*-**Diphenylethane**, synthesis of, from benzene and ethylenic chloride (ANGELIS and ANSCHÜTZ), 1884, A., 753; (DA SILVA), 1884, A., 1356.
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nitration-products of (ANSCHÜTZ and ROMIG), 1885, A., 800.
mono- and *di*-nitro- (ANSCHÜTZ and ROMIG), 1885, A., 768.
- s*-**Diphenylethane-*o*-carboxylic acid** (GABRIEL), 1885, A., 1230.

- s*-Diphenylethane-*o*-dicarboxylic acid (WISLICIENUS), 1885, A., 58; (DOBEREFF), 1887, A., 958; (EPHRAIM), 1890, A., 1113.
- Diphenylethynylsulphone phenylic sulphide (LAVES), 1890, A., 988.
- Diphenylethylenureide (PINNER), 1891, A., 60.
- 2':4'-Diphenyletho- $\alpha\beta$ -dihydronaphthaquinoxaline (FISCHER and BUSCH), 1891, A., 1514.
- 1':3'-Diphenylenaphthazonium bromide, hydroxide and nitrate (FISCHER and BUSCH), 1891, A., 1110.
- Diphenylethyl *o*-xylyl ketone (WEGE), 1892, A., 338.
- β -Diphenylethylamine (FREUND and IMMERWAHR), 1890, A., 1407.
- s*-Diphenylethylamine (LEUCKART and JANSSEN), 1889, A., 883.
- Diphenylethylamine, action of diazo-*p*-nitrobenzene on (MELDOLA), 1884, T., 111.
- Diphenylethylcarbamide (GEBHARDT), 1884, A., 1321.
- s*-Diphenylethylene. See Stilbene.
- Diphenylethylene diketone (*diphenacyl*; *succinophenone*) (CLAUS and WERNER), 1887, A., 827; (AUGER), 1888, A., 952; (KAPF and PAAL), 1889, A., 147.
- Diphenylethylenecallylidenediamine (MASON), 1887, A., 493.
- Diphenylethylenediamine, action of carbonyl chloride on (HANSEN), 1887, A., 577.
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- α -Diphenylethylenedihydrazine (BURCHARD and MICHAELIS), 1889, A., 138; (BURCHARD), 1890, A., 250.
- Diphenylethylenedihydrazine, *di*-thionyl- (MICHAELIS and RÜHL), 1892, A., 1324.
- Diphenylethylenedihydrazinedisuccinic acid (BURCHARD), 1890, A., 250.
- Diphenylethylenepropylidenedihydrazine (BURCHARD), 1890, A., 251.
- Diphenylethylsulphone (OTTO and DAMKÖHLER), 1885, A., 261.
action of potash and of ammonia on (OTTO and DAMKÖHLER), 1885, A., 537.
- Diphenylethylene*l*ithiocarbamide (LELLMANN and WÜRTNER), 1885, A., 978.
- Diphenylethylenic glycol monomethite (ANSCHUTZ and ROMIG), 1886, A., 1034.
- Diphenylethylidene cyanide (MEYER), 1888, A., 695.
- Diphenylethylidene tricyanide (KRAFFT and v. HANSEN), 1889, A., 697.
hydrogen phosphate (LOSSEN and KÖHLER), 1891, A., 1015.
- Diphenylethylidene ether (BIGINELLI), 1891, A., 296.
- Diphenylethylidenediamine, cyano- (CHAUTARD), 1888, A., 810.
- Diphenylethylidenedisulphone (ESCALES and BAUMANN), 1887, A., 123.
- Diphenylethylidenehydrazine (v. MILLER and PLÖCHL), 1892, A., 1196.
- Diphenylethylsemithiocarbazide (PHILIPS), 1889, A., 1158.
- Diphenylethylthiocarbamide (GEBHARDT), 1884, A., 1321.
action of aniline on (GEBHARDT), 1885, A., 383.
- Diphenylethyltriazole (BLADIN), 1890, A., 271.
- Diphenylethylurazine (PINNER), 1888, A., 1084.
- Diphenylformamidine (WALLACH), 1883, A., 49; (PINNER), 1883, A., 731.
m-nitro- (COMSTOCK and WHEELER), 1892, A., 707.
m-dinitro- (COMSTOCK and WHEELER), 1892, A., 706.
- Diphenylfumaramic acid (PIUTTI), 1886, A., 792.
- Diphenylfuran (DODGE), 1891, A., 1237.
- 2:5-Diphenylfurfuran (KAPF and PAAL), 1888, A., 839; 1889, A., 148; (PERKIN and SCHLOESSER), 1889, P., 162; 1890, T., 944, 953.
reduction of PERKIN and SCHLOESSER), 1890, T., 955.
*tetra*bromo- (PERKIN and SCHLOESSER), 1890, T., 954.
- 2:5-Diphenylfurfuran-3-carboxylic acid (KAPF and PAAL), 1888, A., 839; (PERKIN and SCHLOESSER), 1890, T., 951.
action of bromine on (PERKIN and SCHLOESSER), 1890, T., 953.
- 2:5-Diphenylfurfuran-3:4-dicarboxylic acid (PERKIN and CALMAN), 1886, T., 168; (PERKIN and SCHLOESSER), 1890, T., 951.
preparation of (PERKIN), 1885, T., 271.
- s*-Diphenylglutaric acid (ZELINSKY), 1890, A., 132; (ZELINSKY and FELD-MANN), 1890, A., 384.
- s*-Diphenylglyceryl ether (RÖSSING), 1886, A., 345.
- Diphenylglycollic acid. See Benzilic acid.
- Diphenylglyoxaline (JAPPE), 1887, T., 557; P., 34.

- α -Diphenylglyoxime** (GOLDSCHMIDT and MEYER, 1883, A., 1120).
- β -Diphenylglyoxime** (GOLDSCHMIDT, 1884, A., 62).
- Diphenylglyoxime peroxide** (SCHOLL, 1891, A., 316).
- Diphenylguanidine** (SCHÖNE, 1886, A., 338.
di-cyanide, bromo- and nitro- (HIRSCH, 1888, A., 917).
- Diphenylhexylmethane** and its derivatives (KRAFFT, 1887, A., 253).
- Diphenylhomofluorindine** (FISCHER and HEPP, 1890, A., 1441).
- Diphenylhydantoin** (BISCHOFF and HAUSDÖRFER, 1892, A., 1334).
- α s-Diphenylhydrazine**, derivatives of (STAHEL, 1890, A., 1259.
 cyanuric chloride (FRIES, 1886, T., 742).
- s-Diphenylhydrazine** (*hydrazobenzene*), action of benzaldehyde on (CLEVE, 1886, A., 545.
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 action of ethyldichloramine on (PIERSON and HEUMANN), 1883, A., 915.
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 intramolecular change in (JACOBSON and FISCHER), 1892, A., 840.
 derivatives of (STERN; V. BANDROWSKI), 1884, A., 1015.
 halogen derivatives of (JANOVSKY and ERB), 1887, A., 478).
- s-Diphenylhydrazine**, diamido- (*hydrazocaniline*), preparation of (GRAEFF), 1885, A., 1127.
 bromo- [m.p. 63°] (JANOVSKY and ERB), 1886, A., 1024.
p-bromo- [m.p. 115°] (JANOVSKY and ERB), 1887, A., 479.
*di*bromo- (JANOVSKY and ERB), 1887, A., 479.
p-chloro- (HEUMANN and MENTHA), 1886, A., 875.
m-chloro-*o*-nitro- (WILLGERODT and FERKO), 1888, A., 830.
p-iodo- (NÖLTING and WERNER), 1891, A., 211.
 α -*d*-nitro- (WILLGERODT and FERKO), 1888, A., 829; (WILLGERODT and HERMANN), 1889, A., 1160; 1890, A., 1259.
*tri*nitro- (FISCHER), 1890, A., 40.
 conversion of, into nitrosodinitroazobenzene (FREUND), 1889, A., 977).
- Diphenylhydrazineacetylacetone** (PAAL), 1885, A., 505.
- s-Diphenylhydrazine-*o*-carboxylic acid** (PAAL), 1892, A., 67.
p-bromo-, and *p*-chloro- (PAAL), 1892, A., 68.
- s-Diphenylhydrazinedi-*m*-carboxylic acid** (*m-hydrazobenzonic acid*), acids obtained by heating, with stannous chloride (KUSSEROW), 1890, A., 778.
- s-Diphenylhydrazinedi-*o*-carboxylic acid** (*o-hydrazobenzonic acid*) (HOMOLKA), 1884, A., 1342.
- s-Diphenylhydrazinedisulphonamide** (LIMPRICHT and MEYER, 1892, A., 973).
- s-Diphenylhydrazinedisulphonic acid** (RODATZ), 1883, A., 479; (LIMPRICHT), 1889, A., 399; 1890, A., 987.
- s-Diphenylhydrazinedisulphonic acid** action of nitrous acid on (LIMPRICHT), 1885, A., 1216.
- Diphenylhydrazinepyruvic acid**, synthesis of (FISCHER and HESS), 1884, A., 1181.
- s-Diphenylhydrazine*di*thiodisulphonic acid** and its barium salt (BAUER), 1885, A., 1139.
- s-Diphenylhydrazine*thio*disulphonic acids** (LIMPRICHT), 1885, A., 985.
- p-Diphenylhydrazohexamethylene** (V. BAEYER and NOYES), 1889, A., 1148.
- Diphenylhydrazonebenzylidenesulphonic acid**, sodium salt of (KAFKA), 1891, A., 720.
- Diphenylhydrazonenitro-opianic acid** (BISTRZYCKI), 1888, A., 1209.
- Diphenylhydrazoneopianic acid** (BISTRZYCKI), 1888, A., 1209; (TUST), 1892, A., 1210.
- Diphenylhydrazonephthalaldehydic acid** (ALLENDOERFF), 1891, A., 1870.
- Diphenylic carbonate**, action of aniline, *o*- and *p*-toluidines, naphthylamine, and of diphenylcarbamide on (ECKENROTH), 1885, A., 786.
 conversion of, into salicylic acid (HENTSCHEL), 1883, A., 589.
- dodecachloride** (SCHÜPPHAUS), 1885, A., 52.
- dicyanide (PINNER), 1891, A., 60.**
- o*:*p*-**dicyanide (REGLAND), 1890, A., 167.**
- $\Delta^{1:3}$ -**dihydroterephthalate** (V. BAEYER and HERB), 1890, A., 1132.
- $\Delta^{2:5}$ -**cis-trans dihydroterephthalate** (V. BAEYER and HERB), 1890, A., 1131.
- diphenylenedicarbamate** (SNAPE), 1886, T., 256.
- hydrogen cyanide** (KRAFFT and KOENIG), 1890, A., 1252.

- Diphenylic lead oxide** (POLIS), 1888, A., 283.
 lead salts (POLIS), 1887, A., 573; 1888, A., 283.
 sebacamide (GEHRING), 1887, A., 822.
disulphide (CLEVE), 1888, A., 698.
- Diphenylimide**, imidothio-, and its salts (BERNTSEN), 1885, A., 259.
- Diphenylimidomethylthiazoline** (TRAUMANN), 1889, A., 415.
- "Diphenyldiimidonaphthol"** (*β -naphthoquinonediimidide*) (MELDOLA), 1884, T., 157.
- Diphenylimidophenylene** (SEIFERT), 1890, A., 490.
- Diphenylimidothiazoline** (FISCHER and BUSCH), 1891, A., 1517.
- Diphenylindole** (FISCHER), 1886, A., 806; (PFÜLF), 1887, A., 956.
- Diphenylene**. See *iso*Benzidine.
- Diphenylizindihydroxytartaric acid** (ZIEGLER and LOCHER), 1887, A., 578.
m-nitro- (BISCHLER and BRODSKY), 1890, A., 151.
- Diphenylketazine** (CURTIUS and RAUTERBERG), 1891, A., 1359.
- Diphenylketopiperazine** (BISCHOFF and NASTVOGEL), 1889, A., 1009; 1890, A., 1160.
- β -Diphenyllactic acid and anhydride** (WEISE), 1889, A., 253.
- Diphenylmaleanil** (ANSCHÜTZ and BENDIX), 1891, A., 71.
- Diphenylmaleic acid**, action of soda on (DELISLE), 1892, A., 297.
- Diphenylmaleic anhydride** (ANSCHÜTZ and BENDIX), 1891, A., 71; (GABRIEL and COHN), 1892, A., 178.
- Diphenylmaleonitrile** (CHALANEY and KNOEVENAGEL), 1892, A., 618.
- Diphenylmethane** (HODGKINSON and MATTHEWS), 1883, T., 164.
 oxidation of, in the organism (KLINGENBERG), 1891, A., 1529.
 derivatives of (STAEDEL and HAASE), 1890, A., 1422.
- Diphenylmethane**, *m*-amido- (BECKER), 1883, A., 203.
p-amido- (BASLER), 1884, A., 310.
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p-diamido-, and its nitro-derivatives (GRAM), 1892, A., 618.
tetramido-, and its compounds (STAEDEL), 1883, A., 991.
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m-nitro- (BECKER), 1883, A., 202.
o-nitro-, preparation of (GEIGY and KOENIGS), 1885, A., 1237.
- Diphenylmethane**, *p*-nitro- (BASLER), 1884, A., 310; (MANNS), 1889, A., 261.
*d*initro- (BASLER), 1884, A., 310.
tetranitro- (v. RICHTER), 1888, A., 1190.
 preparation of (STAEDEL), 1883, A., 990.
- p*-Diphenylmethanecarbamide** (MANNS), 1889, A., 261.
- Diphenylmethanedicarboxylic acid** (GRAEBE and JULLARD), 1888, A., 156; (JULLARD), 1888, A., 708.
- Diphenylmethanehydrazine** (MANNS), 1889, A., 261.
- Diphenylmethanetricarboxylic acid** (GRAEBE and JULLARD), 1888, A., 154; (JULLARD), 1888, A., 707.
- Diphenylmethenylamidine** (SENIER), 1885, A., 767.
- Diphenylmethenylazidine** (PINNER), 1884, A., 1323.
- Diphenylmethenyldiamine** (TOBIAS), 1883, A., 326.
- Diphenylmethylamine**, molecular refraction and dispersion of (GLADSTONE), 1891, T., 296.
- Diphenylmethylamine**, *diamidothio*-, and its derivatives (BERNTSEN), 1885, A., 259.
p-nitroso- (FISCHER and HEPP), 1890, A., 614.
 thio- (HOLZMANN), 1888, A., 1080.
- Diphenylmethyamineazylane** (LIPPMANN and FLEISSNER), 1884, A., 180.
- Diphenylmethylaminesulphone** (BERNTSEN), 1884, A., 596.
- Diphenylmethylcarbamide** (GEHARDT), 1884, A., 1321.
- Diphenylmethylcarbinol** (ADAM), 1888, A., 959.
 nitro- (ANSCHÜTZ and ROMIG), 1885, A., 768.
- Diphenyl-*o*-, -*m*- and -*p*-methylcarbinylamines** (GOLDSCHMIDT and STÖCKER), 1891, A., 1480, 1479.
- Diphenyl-*m*-methylcarbinylcarbamide** (*homobenzhydrylcarbamide*) (GOLDSCHMIDT and STÖCKER), 1891, A., 1480.
- Diphenyl-*p*-methylcarbinyl-phenylcarbamide and -thiocarbamide** (GOLDSCHMIDT and STÖCKER), 1891, A., 1480.
- Diphenylmethylcinnamaldazimethylen** (CURTIUS and RAUTERBERG), 1891, A., 1360.
- 2:6-Diphenyl-5-methyl-*m*-diazine**, 4-amido- (v. MEYER), 1889, A., 578; (SCHWARZE), 1890, A., 1159.
- Diphenylmethyldihydropyrazine** (KNORR and BLANK), 1885, A., 556.

- 4':5'-Diphenyl-3'-methyl-dihydroquin-oxaline (FISCHER and BUSCH), 1891, A., 1515.
- Diphenylmethylenediketone. See Dibenzoylmethane.
- Diphenylmethyleneaniline (v. MILLER and PLÖCHL), 1892, A., 1195.
- Diphenylmethylen-benzaldazine and -cinnamaldazine (CURTIUS and RAUTERBERG), 1891, A., 1359.
- Diphenylmethylen-hydrazine and -tetrazone (CURTIUS and RAUTERBERG), 1891, A., 1358, 1359.
- Diphenylmethylenedithioglycollic acid (BONGARTZ), 1888, A., 479.
- Diphenylmethylenethylenesulphide (FASBENDER), 1888, A., 805.
- Diphenylmethylethophenazonium hydroxide (KEHRMANN and MES-SINGER), 1892, A., 1108.
- Diphenylmethylglyoxaline (JAPP and WYNNE), 1886, T., 465; P., 291; (JAPP), 1887, T., 557; P., 34.
- Diphenylmethylic tricyanide (KRAFFT and v. HANSEN), 1889, A., 696. formation of (EITNER and KRAFFT), 1892, A., 1184. preparation of (KRAFFT and KOE-NIG); 1890, A., 1252.
- sulphide (OBERMEYER), 1888, A., 124.
- Diphenylmethylphthalide (v. HEMI-LIAN), 1884, A., 321.
- Diphenylmethylpyrazole and its deriva-tives (KNORR and BLANK), 1885, A., 556; (FISCHER and BÜLOW), 1885, A., 1237.
- o*- and *p*-nitro- (KNORR and JÖDICKE), 1885, A., 1247, 1248.
- 1:3-Diphenyl-5-methylpyrazole, *tri*-nitro- (KNORR and LAUBMANN), 1889, A., 409.
- 1:5-Diphenyl-3-methylpyrazole (KNORR), 1887, A., 678.
- Diphenylmethylisopyrazole and its salts (KNORR and BLANK), 1885, A., 810.
- Diphenylmethylpyrazolecarboxylic acid (KNORR and BLANK), 1885, A., 556.
- p*-amido- (KNORR and JÖDICKE), 1885, A., 1248.
- o*- and *p*-nitro- (KNORR and JÖDICKE), 1885, A., 1247, 1248.
- Diphenylmethylisopyrazolecarboxylic acid and its salts (KNORR and BLANK), 1885, A., 810.
- Diphenylmethylpyrazolecarboxylic anhydride, *o*-amido- (KNORR and JÖDICKE), 1885, A., 1248.
- 1:5-Diphenyl-3-methylpyrazoline (KNORR), 1887, A., 678.
- 1:3-Diphenyl-2-methylpyrazolone (KNORR and KLOTZ), 1887, A., 1121.
- 1:5-Diphenyl-2-methylpyrrole (LE-DERER and PAAL), 1886, A., 75.
- 1:5-Diphenyl-2-methylpyrrole-3-carb-oxylic acid and its ethyl salt (LE-DERER and PAAL), 1886, A., 75.
- 3':4'-Diphenylmethylquinoxaline (HINSBERG), 1884, A., 1053.
- Diphenylmethylsulphonephenylic sul-phide (LAVES), 1890, A., 988.
- $\alpha\beta$ -Diphenyl- μ -methylthiazole (HU-BACHER), 1891, A., 222.
- Diphenylmethylthiocarbamide (GEB-HARDT), 1884, A., 1320. action of ammonia and of *o*-toluidine on (GEBHARDT), 1885, A., 383.
- Diphenylmethyltriazole (BLADIN), 1889, A., 138.
- Diphenylnaphthaleneazammonium hydroxide and its salts (ZINCKE and LAWSON), 1887, A., 731.
- Diphenylnaphthaquinoxaline (LAW-SON), 1885, A., 1239.
- Diphenyl- $\alpha\beta$ -naphthatriazine (MEL-DOLA), 1890, T., 331. and its derivatives (MELDOLA and FORSTER), 1891, T., 681.
- Diphenylnaphthylenecarbamide (BAM-BERGER and SCHIEFFELIN), 1889, A., 892.
- Diphenylnaphthylenediamine [m.p. 168°] (ANNAHEIM), 1887, A., 839.
- Diphenylnaphthylene-*p*-diamine (FISCHER and HEPP), 1890, A., 911.
- Diphenyl-*o*-nitrobenzylcarbamide (PAAL and BODEWIG), 1891, A., 944.
- Diphenyl-*l*-nitroethane (GABRIEL), 1885, A., 1229.
- Diphenyl-*l*-nitromethane (SCHOLL), 1891, A., 315.
- Diphenyl-*m*- and -*p*-nitrophenylcarb-amides (LELLMANN and BONHÖFFER), 1887, A., 936.
- Diphenylnitrosamine, *o*-nitro- (FIS-CHER), 1892, A., 332.
- Diphenyl-*l*-nitrosohydrazine (AR-HEIDT), 1887, A., 958.
- Diphenylnitrosoketopiperazine (BIS-CHOFF and NASTVOGEL), 1890, A., 1161.
- Diphenyl-*o*-nitrosopropane (DE NEUF-VILLE and v. PECHMANN), 1891, A., 319.
- Diphenyl-*m*-nitro-*p*-tolylecarbamide (LELLMANN and BONHÖFFER), 1887, A., 936.
- Diphenyloxalylguanidine, nitro- (HIRSCH), 1888, A., 947.
- Diphenyloxamide. See Oxanilide.

- Diphenyloxycyanidine** (PINNER), 1891, A., 59.
- Diphenylparabanic acid** (v. STOJENTIN), 1885, A., 1195, 1196.
- nitro-** (HIRSCH), 1888, A., 947.
- dinitro-** (v. STOJENTIN), 1885, A., 1195.
- Diphenyl-*p*-phenylene diketone** (NÖLTING and KOHN), 1885, A., 389; 1886, A., 349.
- Diphenyl-*m*- and -*p*-phenylenediamines and their derivatives** (CALM), 1884, A., 591, 592.
- Diphenyl-*m*-phenylenediamine, *p*-nitroso-** (FISCHER and HEPF), 1890, A., 613.
- Diphenylphenylenedicarbamide** (KÜHN), 1885, A., 979.
- m*-Diphenylphenylenedisulphone**, action of potash on (OTTO and RÖSING), 1887, A., 372.
- Diphenylphenylenepropionic acid** (LIEBERMANN and HARTMANN), 1892, A., 1228.
- Diphenylphenylene*l*thiocarbamides, *o*- and -*m*-** (LELLMANN and WÜRTNER), 1885, A., 977.
- Diphenylphosphinic acid, diamido-** (DÖRKEN), 1888, A., 834.
- dinitro-** (DÖRKEN), 1888, A., 833.
- Diphenylphosphonium salts** (DÖRKEN), 1888, A., 833.
- Diphenylphosphoric acid, dinitro-** (RAPPE), 1884, A., 1337.
- Diphenylphosphorous acid** (NOACK), 1883, A., 737.
- Diphenylphosphoryl chloride** (NOACK), 1883, A., 735; (ANSCHÜTZ and EMERY), 1890, A., 34.
- trichloride* and *thiochloride*** (ANSCHÜTZ and EMERY), 1890, A., 35.
- Diphenylphthalamic acid, and its salts** (PIUTTI), 1884, A., 451.
- Diphenylphthalidicarboxylic acid** (v. HEMILIAN), 1887, A., 267.
- Diphenylphthaloylic acid** (KAISER), 1890, A., 897.
- Diphenylphthalylasparagine** (PIUTTI), 1886, A., 621.
- Diphenylpiperazine** (BISCHOFF and TRAFESONZJANZ), 1890, A., 1332.
- preparation of** (LELLMANN and SCHLEICH), 1889, A., 904.
- and its homologues, preparation of** (BISCHOFF), 1889, A., 1010.
- Diphenylpiperazine, *p*-diamido-, formation of colouring matters from** (LELLMANN and SCHLEICH), 1889, A., 904.
- p*-dinitro-** (SCHMIDT and WICHMANN), 1892, A., 210.
- 2:3-Diphenylpiperazines, α - and β -, and their derivatives** (MASON), 1889, T., 102, 105.
- $\alpha\alpha$ -Diphenylpiperidine and $\alpha\alpha$ -diphenylpiperidine- γ -carboxylic acid** (PAAL and STRASSER), 1888, A., 63.
- $\alpha\beta$ -Diphenylpropane** (WISPEK and ZUBER), 1883, A., 977; (KRAEMER, SPILKER and EBERHARDT), 1891, A., 207.
- Diphenylpropionic acid and its derivatives** (BÖTTINGER), 1884, A., 55.
- β -Diphenylpropionic acid, preparation of** (HENDERSON), 1891, T., 734; P., 123; (LIEBERMANN and HARTMANN), 1892, A., 849, 1228.
- Diphenylpropylamine** (FREUND and REMSE), 1890, A., 1422.
- Diphenylpropyl-carbamide, -oxamide and -phenylthiocarbamide** (FREUND and REMSE), 1890, A., 1422.
- Diphenylpropylic alcohol** (FREUND and REMSE), 1890, A., 1423; (PERKIN and STENHOUSE), 1891, T., 1009.
- Diphenylpropylpropionitrile** (ROSSO-LYMO), 1889, A., 862.
- Diphenylisopropylsemithiocarbazide** (PHILIPS), 1889, A., 1159.
- 2:3-Diphenylpyrazine** (MASON), 1889, T., 99.
- dinitro-** (MASON), 1889, T., 101.
- 3:6-Diphenylpyrazine (*isoindole, amphiphenylnitrile*)** (FRIEDLÄNDER and MÄHLI), 1883, A., 918; (MÖHLAU), 1885, A., 560.
- molecular weight of** (TREADWELL and MEYER), 1883, A., 665.
- 1:3-Diphenylpyrazole** (KNORR and LAUBMANN), 1889, A., 410.
- Diphenylpyrazolecarboxylic acid** (BEYER and CLAISEN), 1887, A., 944.
- Diphenylpyrazoledicarboxylic acid** (KNORR and LAUBMANN), 1889, A., 409.
- 1:5-Diphenylpyrazoline** (LAUBMANN), 1888, A., 726.
- 1:3-Diphenylpyrazolone and its derivatives** (KNORR and KLOTZ), 1887, A., 1121.
- Diphenylpyrazoloneazobenzene** (KNORR and KLOTZ), 1887, A., 1121.
- 2:6-Diphenylpyridine** (PAAL and STRASSER), 1888, A., 63; (DOEBNER and KUNTZE), 1889, A., 1212.
- 2:6-Diphenylpyridine-4-carboxylic acid** (PAAL and STRASSER), 1888, A., 62.
- $\alpha\alpha'$ -Diphenylpyridinetricarboxylic acid** (DOEBNER and KUNTZE), 1889, A., 112.
- 2:6-Diphenylpyridone and 2:6-diphenylpyridone-3-carboxylic acid** (FEIST), 1891, A., 458.

- 2:6-Diphenylpyrone and 2:6-diphenylpyronecarboxylic acid (FEIST), 1891, A., 458.
- 2:5-Diphenylpyrrole (BAUMANN), 1887, A., 736; (KAPF and PAAL), 1889, A., 149.
- 2:5-Diphenylpyrrole-3-carboxylic acid (KAPF and PAAL), 1888, A., 810; 1889, A., 149.
- Diphenyl-pyrrolidone and -pyrrolone (KLINGEMANN), 1892, A., 1003.
- Diphenylpyrrolylrotolactone (ANGELI), 1890, A., 1000.
- α -Diphenyl- β -pyrrolylpropionic acid (ANGELI), 1890, A., 1000.
- p*-Diphenylquinol MÜLLER and v. PECHMANN), 1889, A., 1171.
- Diphenylquinol, *di*-, *tri*- and *tetra*-nitro- (NIETZKI and SCHÜNDELEN), 1892, A., 310.
- 2:4-Diphenylquinoline (BEYER), 1887, A., 849.
- $\alpha\beta$ -Diphenylquinoline (BUDDEBERG), 1890, A., 1142.
- Diphenylquinolylmethane and its derivatives (FISCHER and FRÄNKEL), 1886, A., 561; 1888, A., 56.
- p*-Diphenylquinone MÜLLER and v. PECHMANN), 1889, A., 1171.
- Diphenylquinoxaline, *diamido*- (NIETZKI and MÜLLER), 1889, A., 605.
- Diphenylquinoxaline-*m*-carboxylic acid (ZEHR), 1891, A., 303.
- Diphenylresorcinol, *tetra*-, *penta*- and *hexa*-nitro- (NIETZKI and SCHÜNDELEN), 1892, A., 310.
- Diphenylrosamine (HEUMANN and REY), 1890, A., 158.
- $\alpha\omega$ -Diphenylselenazole (HOFMANN), 1889, A., 727.
- Diphenylselenocarbamide (STOLTE), 1887, A., 43.
- Diphenylselenone (CHABRIÉ), 1890, A., 34.
- Diphenylsemicarbazide (KÜHN), 1885, A., 261.
- Diphenylsemithiocarbazide, *p*-bromo-*o*-nitro-, and *m*-nitro- (BISCHLER and BRODSKY), 1890, A., 152, 151.
- Diphenylsemithiocarbazidecarboxylic acid (RODER), 1887, A., 150.
- Diphenylsilicon *dichloride* (POLIS), 1886, A., 619.
- Diphenyl-stibic acid and -stibine chloride (MICHAELIS and REESE), 1886, A., 885.
- Diphenylsuccinamic acid, and its salts (PIUTTI), 1885, A., 783.
- Diphenyl-succinanil and -succinanilic acid (ANSCHÜTZ and BENDIX), 1891, A., 72.
- Diphenylsuccinic acid, action of strong sulphuric acid on (ROSER), 1888, A., 1301.
- cyano- (POPPE), 1890, A., 504.
- Diphenyl*isosuccinic* acid, preparation of (HENDERSON), 1891, T., 732; P., 123.
- Diphenylsuccinic acid (ANSCHÜTZ and BENDIX), 1891, A., 71.
- Diphenylsuccinic anhydrides (TILLMANN), 1890, A., 1135; (ANSCHÜTZ and BENDIX), 1891, A., 72.
- Diphenylsuccinimidine (BLOCHMANN), 1887, A., 931.
- Diphenylsuccinonitriles, stereoisomeric (CHALANEY and KNOEVENAGEL), 1892, A., 619.
- Diphenylsulphamic acid, amido- (SPIEGEL), 1885, A., 987.
- Diphenylsulphide-*o*-carboxylic acid (ZIEGLER), 1890, A., 1292; (GRAEBE and SCHULTESS), 1891, A., 1058.
- Diphenylsulphonamic acid, ammonium salt of (TRAUBE), 1891, A., 569.
- Diphenylsulphone (*benzenesulphone*; *sulphobenzide*) (OTTO), 1885, A., 535.
- decomposition of (OTTO), 1886, A., 1031.
- Diphenylsulphone, *diamido*- and its derivatives (LAUTH), 1892, A., 1093.
- o*-*dichloro*- (FRIEDEL and CRAFTS), 1887, A., 1101.
- Diphenylsulphone mercaptan (R. and W. OTTO), 1888, A., 282.
- s*-Diphenylsulphoneacetone, synthesis of (OTTO), 1889, A., 1186.
- Diphenylsulphonebromopropane (STUFFER), 1890, A., 988.
- Diphenylsulphone-*o*-carboxylic acid (GRAEBE and SCHULTESS), 1891, A., 1058.
- Diphenylsulphonedimethylacetone (OTTO), 1886, A., 801.
- Diphenylsulphonedisulphonic acid and its derivatives (OTTO and RÖSSING), 1887, A., 263.
- Diphenylsulphonemethane (FROMM), 1890, A., 56.
- Diphenylsulphonophenyl ether (OTTO and RÖSSING), 1887, A., 372.
- s*-Diphenylsulphoneisopropyl alcohol (OTTO and RÖSSING), 1890, A., 780.
- Diphenylsulphone-*m*-sulphonic acid (OTTO), 1886, A., 1031.
- $\alpha\beta$ -Diphenylsulphone- β -thiophenylpropane (AUTENRIETH), 1891, A., 1068.
- Diphenylsulphonethylamine (OTTO), 1890, A., 380.

- Diphenylsulphonethylic oxide** (OTTO and DAMKÖHLER), 1885, A., 263.
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- Diphenylsulphonethylmethylamine** (OTTO and DAMKÖHLER), 1885, A., 538.
- Diphenylsulphonic acid, p-amido-** (CARNELLEY and SCHLESELMANN), 1886, T., 380; P., 184.
- Diphenylsulphoxide** (COLEY and McLOUGHLIN), 1887, A., 371.
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- Diphenyltartaric acid, and the hydrobromide of the amide of** (BURTON), 1884, A., 62.
- Diphenyltaurocarbamic anhydride** (ANDREASCH), 1883, A., 664.
- Diphenyltetrahydrofurfuran** (KAFF and PAAL), 1889, A., 148.
- Diphenyltetrahydrophenanthroline** (SCHIFF and VANNI), 1890, A., 139.
- Diphenyltetrazine and methiodide of** (RUHEMANN), 1889, T., 244.
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- au-Diphenylthiazole** (HUBACHER), 1891, A., 221.
- Diphenylthiazolecarboxylthiamide** (BLADIN), 1892, A., 638.
- Diphenylthienylmethane** (LEVI), 1886, A., 787.
- s-Diphenylthiocarbamide** (*thiocarbamidide*) (SCHIFF and VANNI), 1892, A., 600.
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- s-Diphenylthiocarbamide, m- and p-amido-** (LELMANN and WÜRTNER), 1885, A., 977.
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- as-Diphenylthiocarbamide** (WERNER), 1892, P., 96; (PASCHKOWETZKY), 1892, A., 164.
- Diphenylthiocarbazinic acid** (STAHEL), 1890, A., 1260.
- Diphenylthiocarbimide, m-mono- and -di-nitro-** (STEUEDEMAN), 1883, A., 801.
- Diphenylthiohydantoin** (KOSSEL), 1892, A., 468.
- 2:5-Diphenylthiophen** (KAFF and PAAL), 1889, A., 148.
- Diphenyltolenylamidine** (GLOCK), 1888, A., 1290.
- Diphenyl-p-toluylamide** (LELMANN and BONHÖFFER), 1887, A., 935.
- Diphenyl-p-tolylbiuret** (PAWLEWSKI), 1888, A., 474.
- Diphenyltolylcarbinol, triamido-**. See Rosaniline.
- Diphenyltolylcarbinol-m-carboxylic acid** (V. HEMILIAN), 1884, A., 323.
- Diphenyl-m-tolylene diamine and its derivatives** (ZEGA and BUCH), 1886, A., 873.
- Diphenyltolylene dicarbamide** (KÜHN), 1885, A., 979; (LEUCKART), 1890, A., 760.
- Diphenyl-m-tolylene thiocarbamide** (BILLETTER and STEINER), 1886, A., 234.
- Diphenyl-p-tolylene di thiocarbamide** (LELMANN and WÜRTNER), 1885, A., 977.
- Diphenyltolylene dicarbamate** (SNAPE), 1886, T., 258.
- Diphenyl-p-tolylguanidine** (HUHN), 1886, A., 1036.
- Diphenyl-m-tolylmethane** (V. HEMILIAN), 1884, A., 322.
- Diphenyltolylmethane, triamido-**. See Leucaniline.
- Diphenyl-p-tolylmethanecarboxylic acid** [m.p. 217°] (V. HEMILIAN), 1884, A., 322.
- Diphenyl-p-tolylmethanecarboxylic acid** [m.p. 155°] (GRESLY), 1886, A., 1035.
- 3':4'-Diphenyl-1'-tolylmethyl dihydro-quinoxaline** (FISCHER), 1891, A., 748.
- 2'':3'':-Diphenyl-4''-tolyl naphthadihydroquinoxaline** (FISCHER), 1892, A., 1474.
- 2 : 3'':-Diphenyl-1''-tolyl naphthahydronaphthazonium hydroxide** (FISCHER), 1892, A., 1474.

- p*-Diphenyltolylphosphine and its derivatives (DÖRKEN), 1888, A., 833.
- 2:5-Diphenyl-*o*-tolylpyrrole (PAAL and BRAIKOFF), 1890, A., 263.
- 2:5-Diphenyl-*p*-tolylpyrrole (BAUMANN), 1887, A., 736.
- Diphenyl-*o*- and -*p* tollylpyrrolecarb-
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- Diphenyltriazenylamidoxime (BLADIN),
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- Diphenyltriazenyl-benzenyl- and
-ethenyl-azoximes (BLADIN), 1889,
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- Diphenyl-triazole and -triazolecarb-
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- Diphenyltricarboxylic acid (BAM-
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- Diphenyltrimethylene*dithiocarbamide*
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- $\alpha\alpha$ -Diphenyltrimethylenic cyanide
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- Diphenylurazine (PINNER), 1888, A.,
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- Diphenylurethane, and its derivatives
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- Diphenylvinyllic nitrite (ANSCHÜTZ and
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- Diphenyl-*o*-xylylenediamine (LESER),
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- Diphenyl-*o*- and -*m*-xylylmethanes (v.
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- Diphenyl-*p*-xylylmethane and its pro-
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- Diphenyl-*m*-xylylpyrrole (PAAL and
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- Diphloroglucinolcarboxylic acid
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- Diphosphoric acid, *mono*- and *dii*mido-
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- Diphosphorhomonamic acid, *dii*mido-
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- Dipthalide ether (RACINE), 1887, A.,
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- Dipthalyl (GRAEBE and GUYE), 1885,
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- Dipthalyl, *tetrachloro*-, and *nitro*-
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- Dipthalylamidoethyl sulphide (GA-
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- Diphtalyl-di-*p*-benzidine (v. BAN-
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- Diphtalyl-diethylenephenyltri-
amine (GABRIEL), 1889, A., 1166.
- Diphtalyl-ditrimethylenetri-
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- Diphtalylethane (*ethinediphtalyl*)
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- iso*Diphtalylethane (ROSER), 1885, A.,
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- Diphtalylethane anhydride (ROSER),
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- Diphtalylimide (GRAEBE and GUYE),
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- Diphtalylimidoethylic sulphide (GA-
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- Diphtalylimidoethylsulphone (GA-
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- β -Diphtalylimidopropyllic *disulphide*
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- Diphtalylactonic acid (GRAEBE and
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- Diphtalylpropane (*propinediphtalyl*)
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- Diphtalyl-succinanilide and -succinde-
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- Diphtheria, chemical pathology of
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- Dipicolinic acid. See Pyridine-2:6-
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- Dipicolyl (AHRENS), 1889, A., 59.
- Dipicolylmethane (LADENBURG), 1889,
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- Dipicrylhydroxylamine (MICHAEL and
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- Dipipecolinemethane (LADENBURG),
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- Dipiperideine (LELMANN and SCHWA-
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- Dipiperidyl [b.p. 251°] and its deriva-
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- 2:2-Dipiperidyl (BLAU), 1889, A., 1213.
- 2:3-Dipiperidyl (BLAU), 1891, A., 583;
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- 4:4-Dipiperidyl and its derivatives
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- Dipiperidylcarbamide (WALLACH and
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- Dipiperidylisatin (SCHOTTEN), 1891,
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- Dipiperidylisatin**, bromo- (SCHOTTEN), 1891, A., 1491.
- Dipiperidyl-methane** and **-phenyl-methane** (EHRENBERG), 1887, A., 1027.
- Dipiperonylideneacetone** (*dipiperonyl-acetyl ketone*) (HABER), 1891, A., 704.
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- Dipiperylquinone** (LACHOWICZ), 1888, A., 1314.
- Dipiperylsemithiocarbazide** (KNORR), 1884, A., 468.
- Dipropargyl** (*heptene*), constitution of (BRÜHL), 1892, A., 1437.
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- Diisopropenyl** (MARIUTZA), 1890, A., 728.
- Dipropionamide** (OTTO and TRÖGER), 1890, A., 726.
- Dipropionyl-*o*-diamidotoluene** (BISTRZYCKI and ULFFERS), 1890, A., 1115.
- Dipropionyldiphenylglyoxime** (AUVERS and MEYER), 1888, A., 598.
- Dipropionylic dicyanide** (LOBBY DE BRUYN), 1885, A., 963.
- Dipropionylmorphine** (HESSE), 1884, A., 613.
- Dipropionyl-naphthylenediamine** (BISTRZYCKI and ULFFERS), 1890, A., 1115.
- Dipropionylpyrrole** (DENNSTEDT and ZIMMERMANN), 1887, A., 844.
- Dipropyl**. See *n*-Hexane.
- Dipropyl acetoxime** (MEYER and WARRINGTON), 1887, T., 689.
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- Diisopropyl acetoxime** and its behaviour with acetic chloride (MEYER and WARRINGTON), 1887, T., 684, 685.
- Dipropyl diketone** (*di*butyryl) (KLINGER and SCHMITZ), 1891, A., 890.
- Dipropyl diketoxime** (*di*butyryloxime) (MÜNCHMEYER), 1886, A., 350, 877.
- Dipropyl distyryl ketone** (*dicuminal-acetone*) (CLAISEN and PONDER), 1884, A., 1167.
- Dipropyl ketone** (*butyrene*) (HAMONET), 1889, A., 235.
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- Diisopropyl ketone** (POLETÉEFF), 1889, A., 477.
- Diisopropyl ketoxime** (MEYER and WARRINGTON), 1886, A., 783.
- Dipropylacetic acid** (*octoic acid*), preparation of, from ethylic malonate (FÜRTH), 1888, A., 1053.
- Dipropylacetylenic dibutyrate** (KLINGER and SCHMITZ), 1891, A., 891.
- β -Dipropylacrylic acid**, and its salts (ALBITZKY), 1885, A., 242.
- Dipropylallylamine** and its platinochloride (LIEBERMANN and PAAL), 1883, A., 909.
- Dipropylallylcarbinol**. See Decenylic alcohol.
- Dipropylamido- γ -disulphide hydrochloride** (GABRIEL and LAUER), 1890, A., 472; (LAUER), 1890, A., 1090.
- Dipropylamine** (VINCENT), 1886, A., 1005.
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- Dipropylamine arsenious bromide** (LANDAU), 1889, A., 211.
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- Diisopropylamine** (VAN DER ZANDE), 1889, A., 953.
- Dipropylaniline** (LIPPMANN and FLEISSNER), 1883, A., 185.
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- Dipropylanilineazoyline** (LIPPMANN and FLEISSNER), 1883, A., 55, 185.
- Dipropylanthracene dihydride** (HALLGARTEN), 1889, A., 895.
- Dipropylanthrone** (HALLGARTEN), 1889, A., 894.
- p*-Dipropylbenzene** (KÖRNER), 1883, A., 321; (FILETI), 1891, A., 1022.
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*di*bromodinitro- (FILETI), 1891, A., 1022.
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- Diisopropylbenzene** (DA SILVA), 1885, A., 1054.
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- Dipropylbenzenes**, synthesis of (HEISE), 1891, A., 685.
- p*-Dipropylbenzenesulphonamide** (REMSEN and KEISER), 1884, A., 457.
- m*-Dipropylbenzenesulphonic acid** (HEISE), 1891, A., 685.

- α - p -Dipropylbenzenesulphonic acid** and its salts (KÖRNER), 1883, A., 321; (REMSEN and KLEISER, 1881, A., 157; (FILETI), 1891, A., 1022.
- β - p -Dipropylbenzenesulphonic acid** (FILETI), 1891, A., 1022.
- s-Dipropylcarbamide** (HECHT), 1890, A., 176.
- as-Dipropylcarbamide** (VAN DER ZANDE), 1889, A., 963; (CHANCEL), 1892, A., 1421.
- as-Diisopropylcarbamide** (VAN DER ZANDE), 1889, A., 963.
- Dipropylcarbinol** (*sec-heptylic alcohol*) [b.p. 150°] (USTINOFF and SAYTZEFF, 1887, A., 353.
- Diisopropylcarbinol** (*sec-heptylic alcohol*) [b.p. 131°] (POLETÉEFF), 1889, A., 477.
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- Diisopropylcarbinyl acetate**, properties of (POLETÉEFF), 1891, A., 889.
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- Diisopropyl-*m*-cresol** and its derivatives (MAZZARA), 1883, A., 463.
- Dipropyldiphenyldiketodihydro-*p*-diazinecarboxylic acid** (ABENIUS), 1890, A., 270.
- Diisopropyldipyrrole** (DENNSTEDT), 1889, A., 401.
- Dipropyldisulphide- γ -diphthalamie acid** (GABRIEL and LAUER), 1890, A., 472.
- Dipropyldisulphobenzonic acid**, barium salt of (STENGEL), 1883, A., 1000.
- β -Dipropylene** (*isopylene*) (COUTURIER), 1891, A., 282.
- Dipropylethylenedisulphone** (OTTO and CASANOVA), 1888, A., 255.
- Dipropylglutaric acid** (GUTHZEIT and DRESSEL), 1890, A., 879.
- Dipropylglycollic acid** (KLINGER and SCHMITZ), 1891, A., 891.
- Dipropylglyoxaline** (*oxalpropylbutylene*) (RIEGER), 1889, A., 119.
- Dipropylhomo-*o*-phthalic acid** and anhydride (LE BLANC), 1889, A., 256.
- Dipropylhomo-*o*-phthalamide** (LE BLANC), 1889, A., 256.
- Dipropylhydroxypropylamine** and its platinumchloride (LIEBERMANN and PAAL), 1883, A., 910.
- Dipropylic dichloroglycollate** (ANSCHUTZ and SCHÖNFELD), 1886, A., 786.
- Diisopropylic ammonium nitrite** (VAN DER ZANDE), 1889, A., 954.
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- 3:3'-Diisopropylindole** (DENNSTEDT), 1889, A., 401.
- Dipropylmethane**. See Heptane.
- Dipropyl- and diisopropyl- nitramines** (SIMON-THOMAS), 1891, A., 168.
- Diisopropylnitrosamine** (VAN DER ZANDE), 1889, A., 954.
- Dipropyl- and diisopropyl-pimelic acids** (PERKIN and PRENTICE), 1891, T., 838, 840.
- $\omega\omega'$ -Dipropyl- and $\omega\omega'$ -diisopropyl-pimelic acids**, dissociation constants of (WALKER), 1892, T., 701, 702.
- Dipropylpropylidenic oxide** (SCHÜDEL), 1884, A., 1283.
- Diisopropylsuccinic acid** (HELL and MAYER), 1889, A., 373.
- Dipropyl- α -sulphaminephthalate** (MOULTON), 1891, A., 1063.
- p -Dipropylsulphonamide**, oxidation of (REMSEN and KEISER), 1884, A., 457.
- Dipropylsulphone** (SPRING and WINSSINGER), 1883, A., 659.
- Di-*o*-propylsulphone** (WINSSINGER), 1888, A., 243.
- Diisopropylsulphonedietiethylmethane** (STUFFER), 1891, A., 180.
- Dipropylthiocarbamide** (HECHT), 1890, A., 476.
- Dipropylthiocarbanilide** (BILLETER and STROHL), 1888, A., 364.
- Dipropyltrimethylenetrisulphone** (CAMPS), 1892, A., 592.
- Diprotocatechuic acid** (SCHIFF), 1883, A., 335.
- Dipyre** from Connecticut (ARZRUNI), 1887, A., 903.
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- Dipyridines**, actions of (OECHSNER de CONINCK), 1886, A., 898.
- Dipyridyl** (SKRAUP and VORTMANN), 1883, A., 88; (ROTH), 1886, A., 477.
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- aa-Dipyridyl** (BLAU), 1888, A., 728; 1889, A., 1212.
- β -Dipyridyl** (LEONE and OLIVERI), 1886, A., 78.
- γ -Dipyridyl** (AHRENS), 1891, A., 1093; and its derivatives (WEIDEL and RUSSO), 1883, A., 483.

- $\alpha\beta$ -Dipyridyl- β -carboxylic acid** and its salts (SKRAUP and VORTMANN), 1883, A., 87.
- $\alpha\beta$ -Dipyridyl- β -dicarboxylic acid** and salts of (SKRAUP and VORTMANN), 1883, A., 87; (SKRAUP and COBENZL), 1883, A., 1010.
- Dipyridyl- $\alpha\alpha$ -dicarboxylic acid** (HEUSER and STOEHR), 1892, A., 75.
- Dipyrogallocarboxylic acid** (SCHIFF), 1888, A., 840.
- Dipyrogallopropionic acid**, and its derivatives (BÜTINGER), 1884, A., 318; 1890, A., 982.
- Dipyroneconic acid**, nitroso- (OST), 1883, A., 793.
- Dipyrroptylene** (ETARD and LAMBERT), 1891, A., 1085.
- Dipyrrol ketone** (CIAMICIAN and MAGNAGHI), 1885, A., 809.
- Dipyrrovanilidediphenylhydrazide** (MESSINGER and ENGELS), 1889, A., 36.
- Diquinaldyl** (*diquinaldine*). See Dimethyldiquinolyl.
- Diquinhydrone** (BARTH and SCHREDER), 1885, A., 521.
- Diquinidine** and its platinochloride (HESSE), 1883, A., 601.
- Diquinazine-blue** (KNORR), 1884, A., 1379.
- Diquinazinehydrobenzene**, action of nitrous acid on (KNORR and BÜLOW), 1884, A., 1381.
- Diquinol** (*tetrahydroxydiphenyl*) (BARTH and SCHREDER), 1885, A., 521.
- Diquinolyl** (*diquinoline*) (JELLINEK), 1886, A., 1045.
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- Diquinolyl** [m.p. 144°], and its derivatives (WEIDEL), 1887, A., 848.
- 2':2'-Diquinolyl**, derivatives of (WEIDEL and GLÄSER), 1886, A., 949.
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- 2':3'-Diquinolyl** (CARLIER and EINHORN), 1891, A., 83.
- α -Diquinolyl**, synthesis of, and its derivatives (OSTERMAYER and HENRICHSEN), 1885, A., 173.
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- β -Diquinolyl**, formation of, by aid of heat (ZIMMERMANN and MÜLLER), 1884, A., 1372.
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- γ -Diquinolyl** from benzidine and its derivatives (ROSER), 1884, A., 1371; 1885, A., 275.
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- δ -Diquinolyl** and its derivatives (FISCHER), 1885, A., 1247.
- Diquinolyls** (OSTERMAYER), 1885, A., 560; (FISCHER), 1885, A., 399, 1246.
- Diquinolyls**, α -4'- and β -4'- (KOENIGS and NEF), 1887, A., 600.
- α -*m*-Diquinolyls** and their salts (v. MILLER and KINKELIN), 1885, A., 1144.
- β -Diquinolyldisulphonic acid** (WEIDEL and GLÄSER), 1886, A., 950; (FISCHER and VAN LOO), 1887, A., 64.
- γ -Diquinolyldisulphonic acid** and its salts (ROSER), 1884, A., 1371.
- α -Diquinolyl- α - and - β -disulphonic acids** (WEIDEL and GLÄSER), 1886, A., 949.
- Diquinolylethane** (COMEX), 1890, A., 1007.
- Diquinolylethylene** (BULACH), 1889, A., 528.
- Diquinolylimide** (NIETZKI and SCHMIDT), 1888, A., 944.
- Diquinone** (BARTH and SCHREDER), 1885, A., 521.
- Diquinoylphenazine** (NIETZKI and SCHMIDT), 1888, A., 690.
- Diquinoyltetroxime** (KEHRMANN and MESSINGER), 1890, A., 1403.
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- Diquinoyltolazine** (NIETZKI and KEHRMANN), 1887, A., 473.
- Diquinyl ketone** (NOLTING and SCHWARTZ), 1891, A., 1106.
- Diresorcinol** (*tetrahydroxydiphenyl*), detection of, in synthetically prepared phloroglucinol (HERZIG and ZEISEL), 1891, A., 125.
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- Diresorcinoldicarboxylic acid**, and its salts (WILL and ABERGHEIT), 1881, A., 1336.

- Diresoreinolphthalein**, and its derivatives (BENEDIKT and JULIUS), 1884, A., 1140.
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- Diresorcinyl tetrethyl ether** (HERZIG and ZEISEL), 1891, A., 76.
- Diresorcinylic tetrabenzoate** (SKRAUP), 1890, A., 136.
- Disalicylaldehyde** (GATTERMANN), 1888, A., 575; (BRADLEY), 1889, A., 873.
- Disalicylbenzoin** (FRITSCH), 1891, A., 708.
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- Ditetrahydro- β -naphthylcarbinyl-carbamide and -thiocarbamide** (BAMBERGER and HELWIG), 1889, A., 1198.
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- Dithionic acid**. See Sulphur.
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- p*-Ditolyl ketone (ELES), 1887, A., 940; (ERRERA), 1891, A., 1053.
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- p*-Ditolyl ketoxime (GOLDSCHMIDT), 1890, A., 1412.
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- p*-Ditolylcarbamic chloride (HAMMERICH), 1892, A., 1083.
- m*-Ditolylcarbamide (GATTERMANN and CANZLER), 1892, A., 832.
- o*-Ditolylcarbamide (MAUTHNER and SUIDA), 1886, A., 886; (BISCHOFF and HAUSDÖRFER), 1890, A., 1285.
- p*-Ditolylcarbazine (FREUND), 1892, A., 512.
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- p*-Ditolylecyanocarbamide diargentocyanide (HAMMERICH), 1892, A., 1084.
- Ditolylidiacetylenediamide, dichloro- (BISCHOFF and NASTVOGEL), 1890, A., 1161.
- Ditolylidicarboxylic acid (LOEWENHERZ), 1892, A., 852.
- p*-Ditolyl- $\alpha\gamma$ -diethyl- $\beta\delta$ -diketopiperazines (BISCHOFF and MINTZ), 1892, A., 1338.
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- p*-Ditolylidiketodihydropyrazine (ABENIUS), 1890, A., 269.
- o*-Ditolylidiketopiperazine (BISCHOFF), 1888, A., 727; (ABENIUS and WIDMAN), 1888, A., 824.
- p*-Ditolylidiketopiperazine (BISCHOFF), 1888, A., 727; (CONRAD and LIMPACH), 1888, A., 854.
- o*-Ditolyl- $\alpha\beta$ -diketopiperazine (BISCHOFF and NASTVOGEL), 1889, A., 1015.
- p*-Ditolyl- $\alpha\beta$ -diketopiperazine (BISCHOFF and NASTVOGEL), 1890, A., 1162.
- o*-Ditolyl- $\alpha\gamma$ -diketopiperazine (BISCHOFF and NASTVOGEL), 1889, A., 1011; (BISCHOFF and HAUSDÖRFER), 1890, A., 1285; 1892, A., 1334.
- p*-Ditolyl- $\alpha\delta$ -diketopiperazine (BISCHOFF and HAUSDÖRFER), 1892, A., 1336.
- p*-Ditolyl- $\alpha\gamma$ -diketopiperazines (BISCHOFF and HAUSDÖRFER), 1890, A., 1284; 1892, A., 1337.
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- p*-Ditolylene sulphoxide (PARKER), 1890, A., 1136.
- as*-Di-*p*-tolylethane (ANSCHÜTZ and RÖMIG), 1885, A., 769.
- Ditolylethylenediamine (MABLEY and KRAUSE), 1890, A., 371.
- p*-Ditolylethylene diketone (CLAUS and SCHLARB), 1887, A., 827.
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- o*-Ditolylethylenediamine (MAUTHNER and SUIDA), 1886, A., 886; (COLSON), 1887, A., 788; 1888, A., 684.

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- Di-*p*-tolylethyltriazole** (BLADIN), 1890, A., 271.
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- p*-Ditolyglycerol** (LINDEMANN), 1891, A., 1199.
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- s*-Di-*p*-tolylhydrazine** (*p*-*hydroxotoluene*), formation of an *o*-amidotolylamine from (TÄUBER), 1892, A., 853.
- s*-Ditolyhydrazine**, *diamido*- and its salts (LIMPERT), 1885, A., 975; (GRAEFF), 1885, A., 1128.
- p*-brom-** (JANOVSKY and ERE), 1887, A., 479.
- s*-Ditolyhydrazinedisulphonamide** (HELLE), 1892, A., 1468.
- m*-Ditolylic dicyanide** (LOEWENHERZ), 1892, A., 852.
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- o*-Ditolylic dihydrosulphide** (LEUCKART), 1890, A., 606.
- p*-Ditolylic carbonate** (BENDER), 1887, A., 38.
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- Ditolylic lead salts** (POLIS), 1889, A., 490.
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- Ditolyline hydrochloride** (NÖLTING and WERNER), 1891, A., 211.
- p*-Ditolyketopiperazine** (BISCHOFF and NASTVOGEL), 1889, A., 1010.
- m*-Ditolylmethenylamidine** (*Ditolyformamidine*) and its derivatives (NIEMENTOWSKI and OBRMSKY), 1887, A., 935.
- Ditolylmethenylamidines**, *o*- and *p*- (SENIER), 1885, T., 764, 766.
- Ditolylmethylecyanidine** (PINNEN), 1892, A., 1110.
- Di-*p*-tolylmethyltriazole** (BLADIN), 1890, A., 271.
- p*-Ditolynaphthylenediamine** (ANNAHEIM), 1887, A., 839.
- p*-Ditolyldiisonitrosoethane** (HOLLEMAN), 1888, A., 456.
- Di-*p*-tolylloxamide** (BLADIN), 1884, A., 1141.
- Ditolyloxindole** (*toluisatin*) and its derivatives (V. BAeyer and LAZARUS), 1886, A., 154.
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- Di-*o*-tolyl-*p*-phenylenediamine** (PHILIP), 1886, A., 912.
- Di-*p*-tolyl-*p*-phenylenediamine** (CALM), 1884, A., 593.
- Di-*p*-tolyl-*m*- and -*p*-phenylenediamines** and their derivatives (HATSCHEK and ZEGA), 1886, A., 456, 457.
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- Ditolyloperazine** [m.p. 154°] (BISCHOFF and NASTVOGEL), 1890, A., 1161.
- Ditolyloperazines**, *o*- and *p*- (BISCHOFF), 1889, A., 1011; (BISCHOFF and HAUSDÖRFER), 1890, A., 1333.
- p*-Ditolylopyrroline** (HOLLEMAN), 1888, A., 455.
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- o*-Ditolylsulphone** (PURGOTTI), 1890, A., 1420.
- p*-Ditolylsulphoneacetone** (R. and W. OTTO), 1888, A., 282.
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- p*-Ditolylsulphonethylamine** and its derivatives (OTTO and DAMKÖHLER), 1885, A., 538.
- o*-Ditolyltetrazine** (RUHEMANN), 1890, T., 52.
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- p*-Ditolyltetrazine** (RUHEMANN), 1889, T., 247; 1890, T., 50.
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- o*-Ditolyltetrazinesulphonic acid** (RUHEMANN), 1890, T., 53.
- Ditolythiocarbamide** (FISCHER and SIEDER), 1891, A., 434.
- Ditolythiocarbamides**, *o*-, *m*- and *p*-, action of acetic anhydride on (WERNER), 1891, T., 402, 403.
- p*-Ditolythiocarbamide**, *o*-*nitro*-, and *dinitro*- (STEUDEMANN), 1884, A., 308, 307.
- o*-Ditolythio-carbazide and -carbazone** (FREUND), 1892, A., 513.
- p*-Ditolythio-carbazide and -carbazone** (FREUND), 1892, A., 512.
- p*-Ditolythiophen** (HOLLEMAN), 1888, A., 455.

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- p*-Ditriazobenzene** and ***m*-ditriazobenzoic acid** (GRIESS), 1888, A., 826, 827.
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- Diuramidonitrobenzoic acid** (GRIESS), 1885, A., 54.
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- Divalolactone** (FITTIG and RASCH), 1890, A., 867; (FITTIG and HOFFEKEN), 1892, A., 814.
- Divalonic acid** (FITTIG and RASCH), 1890, A., 868.
- Diisovaleric acid**, thio- (LOVÉN), 1886, A., 333.
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- p*-Dixyl ketone** (ELBS and OLEBERG), 1886, A., 463; (ELBS), 1887, A., 941; (ERRERA), 1891, A., 1053.
- Dixyls**, diamido-, and colouring matters derived therefrom (NÖLTING and STRICKER), 1889, A., 135.
- m*-Dixyllyldiamido-*o*-diazothiole** (HECTOR), 1890, A., 528.
- Di-*o*- and -*m*-xylylamines** (MULLER), 1887, A., 663.
- Dixyllylbenzene** (SENF), 1884, A., 427.
- Dixyllylcarbamide** (FRENTZEL), 1889, A., 241; (GATTERMANN and CANTZLER), 1892, A., 832.
- m*-Dixyllylcarbamide** (BRÖMME), 1888, A., 1296.
- p*-Dixyllylcarbinol** (ELBS and OLEBERG), 1886, A., 463; (ELBS), 1887, A., 942.
- Dixyllylchloroethanes**, *m*- and *p*- (ELBS and FÖRSTER), 1889, A., 713.
- m*-Dixyllyldichlorethylene** (ELBS and FÖRSTER), 1889, A., 713.
- p*-Dixyllyldiketodihydro-*p*-diazine** (ABENIUS), 1890, A., 269.
- p*-Dixyllyldiketopiperazine** (ABENIUS), 1888, A., 854.
- Dixyllyleneammonium salts** (SCHOLTZ), 1891, A., 1353.
- Dixyllylenic disulphide** (JACOBSON and NEY), 1889, A., 772.
- Dixyllythane** (ANSCHÜTZ and ROMIG), 1885, A., 769.
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- nitr- (DEHOFF), 1890, A., 802; 1891, A., 84; (THIEME), 1891, A., 917.
- Ethenyltetramidobenzene** (NIETZKI and HAGENBACH), 1887, A., 477.
- Ethenyldiamidobenzoic acid** (KAISER), 1886, A., 149.
- Ethenyl-*o*-amidobenzomethylamide** (WEDDIGE), 1887, A., 1044.
- Ethenylamidocumyl mercaptan** (JACOBSON and NEY), 1889, A., 772.
- Ethenylamidodimethylaniline mercaptan** (BERNTSEN), 1889, A., 775.
- Ethenylamidohemipinic acid** (LIEBERMANN and KLEEMANN), 1887, A., 47.
- Ethenyltriamidonaphthalene** and its derivatives (MELDOLA and STREATFIELD), 1887, T., 691.
- Ethenylamidonaphthol** (BÖTTCHER), 1883, A., 1114; 1885, A., 659.
- Ethenyltriamidonaphthyl ethyl ether** (HEERMANN), 1892, A., 1098.
- Ethenylamido- α -naphthyl mercaptan** (v. HOFMANN), 1887, A., 839; (JACOBSON), 1887, A., 961.
- Ethenyltriamidotoluene**, and its acetyl-derivative (NIEMENTOWSKI), 1886, A., 545.
- Ethenyl-*o*-amido-*p*-tolylamide** (NIEMENTOWSKI), 1888, A., 837.
- Ethenylamidoxime** and its derivatives (NORDMANN), 1885, A., 238.

- Ethenylamidoxyl mercaptan** (GUDEMAN), 1888, A., 1282; (JACOBSON and NEY), 1889, A., 772.
- Ethenylanilidoxime** (NORDMANN), 1885, A., 239; (MÜLLER), 1890, A., 43.
- Ethenylazoximebenzenyl** (NORDMANN), 1885, A., 239.
- Ethenylchlor-*o*-amidodiphenylamine** (ERNST), 1891, A., 300.
- Ethenyldiphenylamidine** (NÖLTING and WEINGÄRTNER), 1889, A., 384; (MABERY and KRAUSE), 1890, A., 371.
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- Ethenyldipropionimidine** (PINNER), 1883, A., 1099.
- Ethenylethyl-*o*-phenylenediamine** (HEMPEL), 1889, A., 600; 1890, A., 612.
- Ethenylfurfuran**, nitro-derivatives of (PRIES), 1885, A., 971.
- Ethenylglycollic acid**, and its salts (LOEBY DE BRUYN), 1886, A., 224.
- Ethenylic *tr*-sulphide** (BONGARTZ), 1886, A., 1600.
- Ethenylimidobenzanilide** (LOEB), 1887, A., 42.
- Ethenyl- α -naphthol**, nitrodiamido-, hydrochloride (MEERSON), 1888, A., 713.
- Ethenylnaphthylenediamine** (PRAGER), 1885, A., 1239.
- Ethenylnitrotriamidobenzene** (NIETZKI and HAGENBACH), 1887, A., 476.
- Ethenyl-*o*-phenylenediamine**, nitr- (HEIM), 1888, A., 1097.
- Ethenyltolyleneamidine**. See Tolylenethenylamidine.
- Ethenyltolylene-diamine** (NIEMEN-TOWSKI), 1886, A., 545; (WITT), 1887, A., 247.
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- Ethenyl- and *iso*ethenyl-tolylenediamines and their derivatives** (NIEMENTOWSKI), 1892, A., 837, 838.
- Ethenyltri- α -naphthol** (WISLICENUS and ZWANZIGER), 1888, A., 376.
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- Ethoximidofurfuran** (DOUGLAS), 1892, A., 831.
- Ethoxyacetal**, thio- (AUTENRIETH), 1891, A., 541.
- Ethoxyacetamide**, action of bromine on (v. HOEFMANN), 1886, A., 45.
- 1:4-Ethoxyacetamidoquinoline** (VIG), 1892, A., 1104.
- Ethoxyacetonediphenylmercaptole**, thio- (AUTENRIETH), 1891, A., 568.
- Ethoxyacetone-ethylmercaptole**, thio- (AUTENRIETH), 1891, A., 567.
- o-Ethoxyacetophenone** (FITTIG and CLAUS), 1892, A., 989.
- Ethoxyacrylic acid** from α -dichloropropionic acid (OTTO), 1890, A., 957.
- 3-Ethoxy-4-amidophenol** (WILL and PUKALL), 1887, A., 661.
- Ethoxyanisimide** (TAFEL and ENOCH), 1890, A., 491.
- p-Ethoxyantipyrine** (STOLZ), 1892, A., 1080.
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- Ethoxyanthracene** (GOLDMANN), 1888, A., 714.
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- Ethoxyazobenzene**. See under Azo.
- o-Ethoxybenzaldehyde** (LÖW), 1892, A., 58.
- Ethoxybenzamide** [m.p. 201°] (GATTERMANN and ROSSOLYMO), 1890, A., 975.
- p-Ethoxybenzamide** [m.p. 206°] (PINNER), 1891, A., 64.
- Ethoxybenzamide**, nitro- (THIEME), 1891, A., 916.
- 5-p-Ethoxybenzamidine-2-p-ethoxyphenyl-6-hydroxy-m-diazine-4-carboxylic acid** (PINNER), 1891, A., 64.
- Ethoxybenzamidine hydrochlorides**, o- and p- (PINNER), 1891, A., 64.
- Ethoxybenzene** (*phenyl ethyl ether*), *mono*-, *di*- and *tri*-bromo-*m*-amido- and bromo-*m*-nitro- (LINDNER), 1885, A., 775.
- m-Ethoxybenzenesulphonic acid** (DELISLE and LAGAIL), 1891, A., 310.
- Ethoxybenzenesulphonic acids**, o-, m-, and p-, and their derivatives (LAGAIL), 1892, A., 1089.
- m-Ethoxybenzenylamidoxime ethyl ether** (CLEMM), 1891, A., 699.
- p-Ethoxybenzenylamidoxime ethyl ether** (KEONER), 1891, A., 700.
- p-Ethoxybenzimidooethyl ether hydrochloride** (PINNER), 1891, A., 64.
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- p-Ethoxybenzoic anilide** (LEUCKART and SCHMIDT), 1885, A., 1224.
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- o-Ethoxybenzonitrile** (PINNER), 1891, A., 63; (LÖW), 1892, A., 58.

- p*-Ethoxybenzonitrile (PINNER), 1891, A., 64.
- Ethoxybenzonitriles, *o*- and *p*-, imidoethers from (PINNER), 1891, A., 63.
- nitro- (LOBRY DE BRUYN), 1885, A., 657.
- p*-Ethoxybenzophenone (*p*-benzoyl-phenolol) (GATTERMANN, EHRLHARDT and MAISCH), 1890, A., 964.
- o*-Ethoxybenzylamine (LÖW), 1892, A., 58.
- Ethoxybenzyleneanthrone (BACH), 1890, A., 1425.
- Ethoxybromo-*m*-nitrobenzene (LINDNER), 1885, A., 775.
- Ethoxybromotoluene (SCHREIBER), 1891, A., 552.
- γ -Ethoxybutyric acid (FITTIG and STRÖM), 1892, A., 813.
- Ethoxycaffeine (FISCHER), 1883, A., 355; (THOMS), 1890, A., 1166.
- p*-Ethoxycarbanil (KÖHLER), 1884, A., 1159.
- Ethoxychlorides, silicon derivatives of, action of phosphorus oxychloride on (STOKES), 1891, A., 1171.
- 6-Ethoxy-2:3:5-trichloro-4-amidopyridine (STOKES and v. PECHMANN), 1887, A., 157.
- Ethoxychloro-oxydimethylpurin (FISCHER), 1884, A., 997.
- Ethoxycinchonic acid and its salts (KOENIGS and KÖRNER), 1884, A., 84.
- Ethoxycinnoline (BUSCH and KLETT), 1892, A., 1494.
- p*-Ethoxycoumarilic acid (WILL and BECK), 1886, A., 882.
- Ethoxy-*o*-cresol (LIMPACH), 1892, A., 447.
- β -Ethoxycrotonic acid and its salts (FRIEDRICH), 1883, A., 968.
- Ethoxycyano-*p*-tolenylimide (GLOCK), 1888, A., 1291.
- Ethoxycymene (*cymyl ethyl ether*) (JESURUN), 1886, A., 696.
- iodo- (WILLGERODT and KORNBLUM), 1889, A., 697.
- Ethoxydihydroxyanthraquinone from antrapurpurin (LIEBERMANN and JELLINEK), 1888, A., 717.
- Ethoxydimethyl-*d*-amidoquinone, chlor- (KEHRMANN), 1891, A., 904.
- m*-Ethoxydimethylaniline, actions of (GRIMAU), 1891, A., 693.
- Ethoxydimethylbenzidine (NÖLTING and WERNER), 1891, A., 213.
- Ethoxydimethyl-*m*-diazine (PINNER), 1891, A., 469.
- hydrobromide (PINNER), 1889, A., 1006.
- Ethoxydimethylpyridine (CANZONERI and SPICA), 1887, A., 499; (CONRAD and EPSTEIN), 1887, A., 501; (CONRAD and ECKHARDT), 1889, A., 529.
- Ethoxydiphenyl (HIRSCH), 1889, A., 510.
- d*-amido- (WEINBERG), 1888, A., 285.
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- Ethoxydiphenylamine, *d*-nitro- (SCHÖPF), 1889, A., 773.
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- m*-Ethoxydiphenyldisulphone-*o*-phenylenediamine (AUTENRIETH and HINSBERG), 1892, A., 161.
- p*-Ethoxydiphenylethylamine (PHILIP and CALM), 1885, A., 155.
- p*-Ethoxydiphenylquinoxaline (AUTENRIETH and HINSBERG), 1892, A., 732.
- Ethoxydiphenylsulphonic acid, *d*-amido- (WEINBERG), 1888, A., 285; (FER and MÜLLER), 1889, A., 258.
- Ethoxyethanetricarboxylic acid (BISCHOFF), 1883, A., 45.
- Ethoxyethylamine (LOSSEN), 1889, A., 1065.
- Ethoxyethylanthranil (GOLDMANN), 1888, A., 1202.
- Ethoxyethylbenzamide (LOSSEN), 1889, A., 1065.
- Ethoxyethylhydroquinoline ethiodide (KOHN), 1886, T., 505.
- d*-nitro- (KOHN), 1886, T., 509.
- Ethoxyethylhydroquinolium hydroxide (KOHN), 1886, T., 505.
- Ethoxyethylphenol, nitroso- (KRAUS), 1892, A., 45.
- Ethoxyethyltheobromine (FISCHER), 1883, A., 357.
- Ethoxyhydrocotarnine methiodide (HECTOR), 1890, A., 531.
- p*-Ethoxyhydrocoumarilic acid (WILL and BECK), 1886, A., 882.
- Ethoxyhydroquinoline (FISCHER), 1883, A., 1146; (FISCHER and RENOUF), 1884, A., 1049.
- Ethoxymethenyl-amidophenol, -phenylenediamine and -tolylene-diamine (SANDMEYER), 1887, A., 135.
- Ethoxymethyl ethyl and propyl ketones (ISBERT), 1886, A., 1011.
- p*-Ethoxymethylaniline (BISCHOFF and NASTVOGEL), 1889, A., 1012.
- Ethoxymethylbenzidine (NÖLTING and WERNER), 1891, A., 213.
- γ -Ethoxymethyl- ψ -carbostyryl (FRIEDLÄNDER and MÜLLER), 1887, A., 978.
- β -Ethoxymethylcrotonic acid (FRIEDRICH), 1883, A., 969.
- Ethoxymethyldiphenyl (ADAM), 1888, A., 959.

α -Ethoxymethylhydroquinoline (FISCHER), 1883, A., 1147.

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3-Ethoxy-1-methyl-4-propylbenzene (*thymol ethyl ether*), 2-bromo- and 2:5-bromamido- (MAZZARA and VIGHI), 1890, A., 883.

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α -Ethoxynaphthalene, nitro-derivatives of (HEERMANN), 1891, A., 1379.

β -Ethoxynaphthalene (*naphthyl ethyl ether*), 1':4'-dinitro- (ONUFROWICZ), 1891, A., 321.

β -Ethoxynaphthalene, 1-nitro-, and action of ammonia on (WITTKAMPF), 1884, A., 1036.
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α -nitroso- (V. ILINSKI), 1886, A., 474.

4-Ethoxynaphthaquinone, 3-chloro- (ZINCKE), 1888, A., 710.

Ethoxynaphthazine (AUTENRIETH and HINSBERG), 1892, A., 733.

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1:4-Ethoxynaphthylamine (*amidonaphthyl ethyl ether*) and its derivatives (GRANDMOUGIN and MICHEL), 1892, A., 862; (HEERMANN), 1892, A., 1097.

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β -Ethoxynaphthyllic mono- and di-sulphides (ONUFROWICZ), 1891, A., 322.

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Ethoxydinitronaphthyllic sulphide (ONUFROWICZ), 1891, A., 321.

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***p*-Ethoxyphenanthrazine** (AUTENRIETH and HINSBERG), 1892, A., 733.

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***p*-Ethoxyphenylamidoacetic acid** (BISCHOFF and NASTVOGEL), 1889, A., 1011.

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***p*-Ethoxyphenylcarbamide** (BERLINER-BLAU), 1885, A., 148.

***o*-Ethoxyphenylchloracrylic acid** (FITTIG and CLAUS), 1892, A., 989.

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1-*p*-Ethoxyphenyl-2:3-dimethylpyrazolone (STOLZ), 1892, A., 1080.

***m*-Ethoxy-*o*-phenylenediamine** (AUTENRIETH and HINSBERG), 1892, A., 160.

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***p*-Ethoxyphenylhydrazine** and its salts (STOLZ; ALTSCHUL), 1892, A., 1080, 1081.

***p*-Ethoxyphenylhydrazinesulphonic acid** and its salts (ALTSCHUL), 1892, A., 1082, 1081.

2-*p*-Ethoxyphenyl-6-hydroxy-4:5-dimethyl-*m*-diazine and -4:5-methylethyl-*m*-diazine (PINNER), 1891, A., 61.

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***p*-Ethoxyphenylimidodiacetic acid**, ethoxyanilide of (BISCHOFF and NASTVOGEL), 1889, A., 1012.

1-Ethoxyphenyl-3-methyl-5-pyrazolone (STOLZ), 1892, A., 1080.

5-Ethoxy-1-phenyl-3-methyl-6-pyridazone (ACH), 1890, A., 71.

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***o*-Ethoxyphenylpropionic acid** (FITTIG and CLAUS), 1892, A., 989.

3-Ethoxy-1-phenylpyrazoline, 4-bromo- (FISCHER and KNOEVENAGEL), 1887, A., 933.

Ethoxyphenylisquinoline (GABRIEL), 1886, A., 631.

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***p*-Ethoxyphenyl-*p*-tolylethylamine** (HATSCHKE and ZEGA), 1886, A., 457.

***p*-Ethoxyphenylurethane** and some of its derivatives (KÖHLER), 1884, A., 1159.

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- p*-**Ethoxy**piazthiole (AUTENRIETH and HINSBERG), 1892, A., 731.
- α*-**Ethoxypropanilide** (BISCHOFF and HAUSDORFER), 1892, A., 1337.
- α*-**Ethoxypyridine** (v. PECHMANN and BALTZER), 1892, A., 209.
- α*-(*γ*)-**Ethoxypyridine**, *dichlor*- (KOENIGS and GEIGY), 1884, A., 1369.
- β*-**Ethoxypyridine** (FISCHER and RENOUF), 1884, A., 1370; (WEIDEL and BLAU), 1886, A., 77.
- 6-**Ethoxypyridine**, 2:3:5-*trichloro*-4-amido- (STOKES and v. PECHMANN), 1887, A., 157.
- 6-**Ethoxy-2-pyridone-3:5-dicarboxylic acid** (GUTHZEIT and DRESSEL), 1889, A., 861.
- 3-**Ethoxyquinol** (WILL and PUKALL), 1887, A., 661.
- 1-**Ethoxyquinoline** (FISCHER), 1883, A., 1146; (FISCHER and RENOUF), 1884, A., 1049.
- 1-**Ethoxyquinoline**, derivatives of (VIS), 1892, A., 1105.
- 4-amido- (VIS), 1892, A., 1105.
- 1'-**Ethoxyisoquinoline**, 3'-chlor- (GABRIEL), 1887, A., 62.
- α*-**Ethoxy-β-quinolinecarboxylic acid** (FRIEDLÄNDER and GÖHRING), 1884, A., 1020.
- 3-**Ethoxy-1:4-quinone** (WILL and PUKALL), 1887, A., 661.
- 3-**Ethoxyquinone**, 6-chloro-2:5-diamido- (KEHRMANN), 1891, A., 904.
- p*-**Ethoxyquinoxaline** (AUTENRIETH and HINSBERG), 1892, A., 732.
- p*-**Ethoxyquinoxalinedicarboxylic acid** (AUTENRIETH and HINSBERG), 1892, A., 733.
- o*-**Ethoxystyrene**, *α*-brom- (FITTIG and CLAUS), 1892, A., 989.
- Ethoxystyrylhydantoin hydrobromide** (PINNEN and SPILKER), 1889, A., 706.
- Ethoxy-*α*-styrylpyridine** (BUTTER), 1890, A., 1439.
- Ethoxysuberic acid** and its salts (HELL and REMPEL), 1885, A., 755; (HEMPEL), 1885, A., 756.
- Ethoxysuccinic acid** and some of its salts (PURDIE), 1885, T., 866, 875.
- Ethoxyis succinic acid** (TANATAR), 1891, A., 175; 1892, A., 1305.
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- α*-**Ethoxy-*ar*-tetrahydronaphthalene** (BAMBERGER and BORDT), 1890, A., 509.
- Ethoxytetrahydroquinoline**, preparation of methyl- and ethyl-derivatives of (ANON.), 1883, A., 871.
- Ethoxytetramethylenecarboxylic acid** (PERKIN and SINCLAIR), 1892, T., 46.
- Ethoxythioxyl chloride**, decomposition of, on distillation (GUTHRIE), 1884, A., 1256.
- 2-**Ethoxytoluene** (*tolyl ethyl ether*), preparation of (STAEDEL), 1883, A., 585.
- Ethoxytoluene**, brom- and imido- (SCHREIBER), 1891, A., 552.
- 3-**Ethoxytoluene**, 4:6-*dinitr*- and 2:4:6-*trinitr*- (STAEDEL and KOLB), 1891, A., 187.
- 2-**Ethoxytoluene-3:5-disulphonic acid** (LIMPRICHT), 1885, A., 1233.
- 2-**Ethoxytoluene-4-sulphonic acid** (HEFFTER), 1884, A., 454.
- 4-**Ethoxy-*m*-toluic acid** (COOH:Me = 1:3) (BROWN), 1883, A., 471.
- Ethoxytriphenylmethane** (ALLEN and KÖLLIKER), 1885, A., 655.
- 6-**Ethoxy-*m*-xylene-4-sulphonic acid** (LIMPRICHT), 1885, A., 1234.
- 4-**Ethoxy-*m*-xylene-6-sulphonic acid** (MOODY), 1891, P., 190.
- Ethyl allyl ether**, action of hydrogen chloride and bromide on (KIESER), 1891, A., 164.
- Ethyl *tert*.-amyl ether** (KONDAKOFF), 1888, A., 802.
- Ethyl *iso*-amyl ether**, *α*-chlor- (CLAUS and TRAINER), 1887, A., 231.
- amyl ketone (BÉHAL), 1889, A., 227.
- bromopropyl ether (LESPIEAU), 1892, A., 420.
- butyl ether (HENRY), 1892, A., 28.
- isobutyl* ether (MEISSLER), 1887, A., 1088.
- β*-butyl ketone (WISLICENUS), 1883, A., 966.
- isobutyl* ketone and oxidation of (WAGNER), 1892, A., 36.
- isocrotyl* ether (SCHESCHUKOFF), 1884, A., 1276.
- α*-cyanethyl ketone (HANRIOT and BOUVEAULT), 1889, A., 842.
- α*-cyanoisopropyl ketoxime (HANRIOT), 1892, A., 80.
- Ethyl ether**, production of, by the action of "*Aspergillus glaucus*" on lemon juice (PHIPSON), 1884, A., 855.
- vinyl alcohol a constant constituent of (POLECK and THÜMMEL), 1890, A., 118.
- refractive index and specific gravity of (OUDEMANS), 1886, A., 437.
- electrical conductivity of mixtures of ethylic alcohol and (PFEIFFER), 1886, A., 115.
- heat of combustion of (STOHMANN), 1887, A., 425.
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α -cyanocinnamate (CARRICK), 1892, A., 1086.

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α -cyanopropionate (ZELINSKY), 1889, A., 122.

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- diacetyltetramethylenedicarboxylate (PERKIN and OBREMSKY), 1886, A., 937.
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- dibenzoylacetate, preparation of (PERKIN), 1885, T., 246, 248.
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- β -diethyldisulphonebutyrate** (BAUMANN), 1887, A., 123.
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- dimethoxydiethylacetate (JAMES), 1886, T., 57.
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- dimethylamidobenzeneazophenyl-dimethylpyridinedicarboxylate (LEPETIT), 1887, A., 1053.
- 2:6:4-dimethyl-*isobutyl*- and -*isopropyl*-hydropyridine-3:5-dicarboxylates (ENGELMANN), 1886, A., 259.
- 2:6:4-dimethyl-*isobutyl*pyridine-3:5-dicarboxylate (ENGELMANN), 1886, A., 260.
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- dimethyl-*dicyanoglutarate* (ZELINSKY), 1890, A., 132.
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- αβ*-dimethylglycidate (MELIKOFF and ZELINSKY), 1888, A., 1056.
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- 1-*p*-phenylenebis-2:5-diphenylpyrrole-3-carboxylate (PAAL and BRAI-KOFF), 1890, A., 264.
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- α -Ethyl-naphthalenecarboxylamide** (HARRIS), 1890, A., 158.
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- Ethyl- α - and - β -naphthols**, *trinitr-* (STAEDEL), 1883, A., 863.
- Ethyl- β -naphthoxindole** (HINSBERG), 1892, A., 1458.
- Ethyl-naphthylamine**. See Naphthylethylamine.
- Ethyl-1:4-naphthylenediamine** (BAMBERGER and GOLDSCHMIDT), 1891, A., 1239.
- hydrochloride (KOCK), 1888, A., 469.
- Ethyl-nitramine** (FRANCHIMONT and KLOBBE), 1889, A., 492.
- Ethyl-*o*-nitraniline** (HEMPEL), 1889, A., 600; 1890, A., 611.
- Ethyl-*m*-nitraniline** (NÖLTING and STRICKER), 1886, A., 543.
- Ethyl-*m*- and -*p*-nitranilines**, action of diazotised *p*-bromaniline on (MELDOLA and STREATFEILD), 1889, T., 428, 423.
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- Ethyl-*p*-nitraniline** (WELLER), 1883, A., 579.
- Ethyl-*m*- and -*p*-nitrobenzaldoximes** (GOLDSCHMIDT and KJELLIN), 1891, A., 1478, 1477.
- Ethyl-*m*-nitrobenzenylamidine** (LOSEN), 1892, A., 52.
- Ethyl-*p*-nitrobenzenyloxime** 'nitrite' (WEISE), 1890, A., 46.
- Ethyl-nitrolic acid**, preparation of (MEYER and CONSTAM), 1883, A., 40.
- Ethyl-*p*-nitrophenylnitrosamine** (MELDOLA and STREATFEILD), 1886, T., 631.
- Ethyl-nitrouracil** (LEHMANN), 1890, A., 32.
- Ethyl-nitrous acid**, potassium salt of (CHANCEL), 1883, A., 914.
- Ethyl-n-anthaldoxime** (WESTENBERGER), 1884, A., 581.
- Ethyl-orange** (BERNTSEN and GOSKE), 1887, A., 666.
- Ethyl-oxalamidobenzoic acid** and its derivatives (SCHIFF), 1886, A., 549.
- Ethyl-oxalenediuramidoxime** and its dicarbonate (ZINKEISEN), 1890, A., 124.
- Ethyl-oxalic acid**, potassium salt of (MORLEY and SAINT), 1883, T., 402.
- Ethyl-oxalic chloride** (ANSCHÜTZ), 1886, A., 1011.
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- Ethyl-oxalylacetylbenzamidine** (PINNER), 1889, A., 1009.
- Ethyl-oxalyl-*o*-amidobenzamide** (KNAPE), 1891, A., 910.
- Ethyl-oximide**, derivatives of (PINNER), 1883, A., 1088.
- α -Ethyl- γ -oxyvaleric acid** and its salts (YOUNG), 1883, T., 174.
- Ethylparaconic acid** (FITTIG and DELISLE), 1890, A., 587.
- Ethyl-pentyl sulphide**, occurrence of, in Ohio petroleum (MABERY and SMITH), 1891, A., 1173.
- Ethylphenetol** (AUER), 1884, A., 1002.
- Ethylphenol**, preparation of, by Lieberman's process (ERRERA), 1885, A., 775.
- and its derivatives (AUER), 1884, A., 1002.
- o*-Ethylphenol**. See Phlorol.
- p*-Ethylphenol** (SEMPOTOWSKI), 1890, A., 54.
- Ethylphenolammonium iodide**, *o*-brom- (HANTZSCH), 1883, A., 1111.
- Ethylphenolphthalein** (AUER), 1884, A., 1002.
- Ethylphenol-*m*-sulphonic acid**, derivatives of (SEMPOTOWSKI), 1890, A., 55.

- Ethylphenyl propyl ketone** (BÉHAL and AUGER), 1890, A., 493.
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- Ethylphenylene-blue** (NÖLTING and STRICKER), 1886, A., 544.
- Ethyl-*m*-phenylenediamine** (*amido-ethylaniline*) (NÖLTING and STRICKER), 1886, A., 545.
- Ethyl-*o*-phenylenediamines** (HEMPEL), 1889, A., 600; 1890, A., 612.
- Ethyl-*p*-phenylenediamine** (SCHWEITZER), 1886, A., 347; (FISCHER and HEPP), 1887, A., 244.
- p*-Ethylphenyl-*p*-ethylmesatin** (PAUCKSCH), 1885, A., 256.
- Ethylisophthalic acid** (DOEBNER), 1890, A., 1283; 1891, A., 1064.
- Ethylphthalimide** (LANDSBERG), 1883, A., 476; (GRAEBE and PICTET), 1889, A., 141.
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- α -Ethylpiperidine** (LADENBURG), 1886, A., 159; 1887, A., 65, 740.
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- γ -Ethylpiperidine** (LADENBURG), 1884, A., 760; 1887, A., 65.
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- Ethylpiperidine, 1-amido-** (GABRIEL), 1891, A., 817.
- Ethylpiperidinebetaine and its salts** (KRÜGER), 1891, A., 943.
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- Ethylpiperonylic anhydride, ω -amido-**, fusion of, with potash (PERKIN), 1890, T., 1015.
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- Ethylisopropenyl sulphide** (AUTENRIETH), 1890, A., 361.
- Ethylpropionimide hydrochloride** (PINNER), 1883, A., 1090.
- Ethylpropylacetic acid** (KILIANI), 1886, A., 441.
- α -Ethyl- β -propylacraldehyde** (RAUPENSTRAUCH), 1887, A., 794.
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- m*-Ethylpropylbenzene** (RENARD), 1884, A., 173.
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- p*-Ethylpropylbenzene and its derivatives** (WIDMAN), 1891, A., 45; (V. DER BECKE), 1891, A., 183.
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- p*-Ethylisopropylphenol** (V. DER BECKE), 1891, A., 184.
- Ethylpropylquinol** (FIALA), 1886, A., 454.
- 3'-Ethyl-2'-propylquinoline** (DOEBNER and V. MILLER), 1884, A., 1376; (KAHN), 1886, A., 262.
- Ethylpropylthiocarbamide** (HECHT), 1890, A., 476.
- Ethylpropylthiocarbamilide** (BILLETER and STROHL), 1888, A., 365.
- o*-Ethyl-*p*-isopropyltoluene** (CLAUS), 1892, A., 985.

- α -Ethylpyridine** (LADENBURG), 1886, A., 159; 1887, A., 60.
- β -Ethylpyridine**, properties and derivatives of (STOEHR), 1891, A., 579; 1892, A., 629.
- γ -Ethylpyridine** (OECHSNER DE CONINCK), 1884, A., 910; (LADENBURG), 1886, A., 159; 1887, A., 60.
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- 4-Ethylpyridine** (*β -lutidine*) (OECHSNER DE CONINCK), 1883, A., 739.
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- Ethylpyridinecarboxylic acid** (DÜRKOPF and GÖTTSCHE), 1890, A., 795.
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- Ethyl- α -pyridone** (v. PECHMANN and BALTZER), 1892, A., 209.
- Ethylpyromeconamic acid** (MENNEL), 1885, A., 1204.
- Ethylpyrrole** [b.p. 164°] (DENNSTEDT and ZIMMERMANN), 1886, A., 1043.
- 1-Ethylpyrrole** (ZANETTI), 1890, A., 65, 907; 1891, A., 1387.
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- 1-Ethylpyrrole-2:5-dibenzoic acid** (BAUMANN), 1887, A., 736.
- Ethylquercetin** (HERZIG), 1888, A., 1309.
- Ethylquinazole** (FISCHER and KUZEL), 1884, A., 442.
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- 2'-Ethylquinoline** (REHER), 1887, A., 279; 1888, A., 66; (DOEBNER), 1887, A., 504.
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- 3'-Ethylquinolinesulphonic acid** (REHER), 1887, A., 280.
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- Ethylsantonous acid** (CANNIZZARO and CARNELUTTI), 1883, A., 78.
- Ethyl- β -diselenidodiphtalamic acid** (COBLENTZ), 1891, A., 1216.
- β -Ethyl- α -stilbazole** (6:3-*stargylethylpyridine*), and its derivatives (PLATH), 1889, A., 163, 901.
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- Ethylisosuccinimide** (COMSTOCK and WHEELER), 1892, A., 701.
- Ethylsuccinosuccinic acid**, and its salts (WEDEL), 1884, A., 835; (MOSCHELES and CORNELIUS), 1888, A., 1272; 1889, A., 489.
- Ethylsulphamic acid** (BEILSTEIN and WIEGAND), 1883, A., 971.
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- Ethylsulphine**, *isothio*cyan- (MIOLATI), 1891, A., 893.
- Ethylsulphinic acid** (AUTENRIETH), 1891, A., 203.
- Ethylsulphoneacetic acid** (R. and W. OTTO), 1888, A., 577.
- Ethylsulphoneacetone** (OTTO and TRÜGER), 1891, A., 665.
- β -Ethylsulphoneisocrotonic acid** (AUTENRIETH), 1891, A., 204.
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- Ethylsulphonediphtalamic acid** (GABRIEL), 1892, A., 131.
- Ethylsulphonephenylsulphonol** (AUTENRIETH), 1891, A., 1067.

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- Ethylsulphydromethylthiazoline** (HIRSCH), 1890, A., 860.
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- Ethyl- β -tetrahydronaphthylamine** (BAMBERGER and MÜLLER), 1889, A., 888.
- Ethyltetrahydroquinoline**, Wischnegradsky's (CLAUS and STEGELITZ), 1884, A., 1051.
- 2'-Ethyltetrahydroquinoline** (REHER), 1887, A., 279.
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- Ethyltheobromine**, brom-, and its derivatives (FISCHER), 1883, A., 357.
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- Ethyl-mono- and -di-thiobiurets** (HECHT), 1892, A., 703, 704.
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- α -**Ethylthiocoumarin** (ALDRINGEN), 1892, A., 330.
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- α -**Ethylthiophen** (SCHLEICHER), 1886, A., 227.
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- β -**Ethylthiophen** (DAMSKI), 1887, A., 237; (GERLACH), 1892, A., 829.
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- m*-**Ethylthiouramidobenzoic acid** (ASCHAN), 1884, A., 907.
- Ethylthymolsulphonic acid** (WIDMAN), 1886, A., 470.
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- Ethyl-*p*-tolindole and -*p*-tolindolecarboxylic acid** (HEGEL), 1886, A., 552.
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- Ethyl-*p*-toluidine** and its derivatives (GASTIGER), 1885, A., 381; (GATTERMANN), 1885, A., 975.
- m*-nitro- (NÖLTING and STRICKER), 1886, A., 544; (NÖLTING and AET), 1888, A., 274.
- Ethyltoluidinephthalein** (PIUTTI), 1884, A., 450.
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- α -**Ethyltricarballic acids**, stereoisomeric (AUWERS, KÖBNER and v. MEYENBURG), 1892, A., 42.
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- α -**Ethylvalerolactone** (YOUNG), 1883, T., 172; A., 455.
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 α -Hydroxyaldehydes, action of acetic chloride on (BRADLEY and DAINS), 1892, A., 1458.
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 m -Hydroxyanthraquinone (A. G. and W. H. PERKIN), 1885, T., 680.
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 p -Hydroxybenzaldehyde, heat of solution of (BERTHELOT), 1885, A., 1177.

- p*-Hydroxybenzaldehyde, action of zinc chloride on (BOURQUIN), 1884, A., 1164.
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o-Hydroxybenzaldehydeacetic acid, dithio- (BONGARTZ), 1886, A., 937.
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m-Hydroxybenzenylphenylhydrazone (CLEMM), 1891, A., 699.
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p-Hydroxybenzide and its derivatives (KLEPL), 1884, A., 446.
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m-Hydroxybenzoic acid, absorption spectrum of (HARTLEY), 1888, T., 658.
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p-Hydroxybenzoic acid, action of phosphoric chloride on (ANSCHÜTZ and MOORE), 1887, A., 947.
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- Hydroxybenzotropeine** and its salts (LADENBURG), 1883, A., 671.
- p*-**Hydroxybenzoyl-*p*-hydroxybenzoic acid** (KLEFL), 1884, A., 447.
- p*-**Hydroxybenzoylpiperidine** (SCHOT-
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- o*-**Hydroxybenzylacetamide** (GOLD-
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- o*-**Hydroxybenzylamine** (*salicylamine*)
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- p*-**Hydroxybenzylamine** (SALKOWSKI),
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- o*-**Hydroxybenzylcarbamide** (GOLD-
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- 4-Hydroxy-6-benzyl-*m*-diazine-2-carb-
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- 6-Hydroxy-2-benzyl-4:5-dimethyl-*m*-
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- δ-Hydroxy- γ -benzylhexoic acid**, lactone
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- 2-Hydroxybenzyl-6-hydroxy-4-methyl-
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- o*-**Hydroxybenzyl alcohol**. See Sali-
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- p*-**Hydroxybenzyl alcohol** (BIEDER-
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- Hydroxybenzylidene compounds** (EM-
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- o*-**Hydroxybenzylideneamidobenzamide**
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- Hydroxybenzylideneamidodimethyl-
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- o*-**Hydroxybenzylidene-*p*-amidodi-
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- Hydroxybenzylidene-*o*- and -*p*-amido-
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- o*-**Hydroxybenzylideneazine** (CURTIUS
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- o*-**Hydroxybenzylidenebisthioglycollic
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- p*-**Hydroxybenzylidenediacetanamine
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- Hydroxybenzylidenediphenylmaleide**
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- Hydroxybenzylidenefenchylamine**
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- m*-**Hydroxybenzylidene-4'-methyl-
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- p*-**Hydroxybenzylidene-4'-methyl-
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- p*-**Hydroxybenzylidene-2'-methyl-
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- p*-**Hydroxybenzylidenepinylamine**
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- 6-Hydroxy-2-benzyl-4-methyl-*m*-diaz-
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- 6-Hydroxy-2-benzyl-4-methyl-5-ethyl-
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- o*-**Hydroxybenzyl-4'-methylquinoline**
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- p*-**Hydroxybenzyl-4'-methylquinoline**
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- Hydroxybenzyl- β -naphthylamines** and
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- o*-**Hydroxybenzylphenylcarbamide**
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- Hydroxybenzylphosphinic acid** (FOS-
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- p*-**Hydroxybenzylphthalimidine** (HAF-
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- Hydroxybenzylphthalimidine**, nitro-
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- p*-**Hydroxybenzylsulphonic acid**
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- p*-**Hydroxybenzylthiocarbimide** (SAL-
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- o*-**Hydroxybenzyl-*p*-toluidine** (EMMER-
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- p*-**Hydroxybenzyltoluidine** (EMMER-
ICH), 1888, A., 51.
- Hydroxybenzyltrimethylenecarboxylic
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- γ -**Hydroxy- β -benzylvaleric acid** (ERD-
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- α **Hydroxybromocarmine** (WILL and
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- β -Hydroxybutaldehyde**, formation of, from acetaldehyde (MICHAEL and KOPP), 1884, A., 420.
- Hydroxybutanedisulphonic acid** (HAUBNER), 1892, A., 424.
- Hydroxybutane- β -sulphonic acid**, sodium salt of (HAUBNER), 1892, A., 424.
- γ -Hydroxyisobutanesulphonic acid**, barium salt of (GUARESCHI and GARZINO), 1888, A., 436.
- o*-Hydroxy-*p*-isobutylbenzoic acid** (v. DOBRZYCKI), 1888, A., 368.
- Hydroxyisobutylphosphinic acid** (FOSSEK), 1885, A., 504.
- β -Hydroxybutylpiperidine (*α -pipcecolyl-ethylalkine*)** (MATZDORFF), 1890, A., 1436.
- Hydroxybutylpyridine (*α -propylpyridylalkine*)** (ENGLER and MAJMON), 1891, A., 1505.
- β -Hydroxybutylpyridine (*α -picolylethylalkine*)** (MATZDORFF), 1890, A., 1436.
- Hydroxyisobutylpyrotartaric acid**, salts of (FITTIG and SCHNEEGANS), 1890, A., 591.
- Hydroxyisobutylpyrotartaric acids**, α - and β -, salts of (FITTIG and FEIST), 1890, A., 592, 593.
- Hydroxyisobutyramide**, tetrachloro-, formation of (LEVY, WITTE and CURCHON), 1890, A., 234.
- Hydroxyisobutyramidine hydrochloride** (PINNER), 1884, A., 1292.
- α -Hydroxybutyric acid**, β -amido- (MELIKOFF), 1884, A., 1301.
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 β -chloro- (MELIKOFF), 1883, A., 311;
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- β -Hydroxybutyric acid**, levorotatory, in the blood of a diabetic patient (HUGOUNENQ), 1887, A., 986.
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- β -Hydroxybutyric acid**, α -chloro- (MELIKOFF), 1883, A., 969; 1884, A., 1301; 1885, A., 650; 1887, A., 30; (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 296.
- γ -trichloro-** (v. GARZAROLLI-THURN-LACKH), 1892, A., 429.
- γ -Hydroxybutyric acid** (FRÜHLING), 1883, A., 42.
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- Hydroxyisobutyric acid**, conversion of acetonechloroform into (WILLGERODT), 1883, A., 177.
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- Hydroxyisobutyrimido-ether hydrochloride** (PINNER), 1884, A., 1292.
- Hydroxybutyro-*o*-toluido-*o*-tolylearb-amine**, α -chloro- (RÜGHEIMER and SCHRAMM), 1888, A., 503.
- Hydroxycaffeine**, and its salts (FISCHER), 1883, A., 355.
- Hydroxycamphocarboxylic acid** from camphocarboxylic acid (HALLER and MINGUIN), 1890, A., 638.
- Hydroxycampholactonic acid** (WÖRINGER), 1885, A., 669.
- Hydroxycamphor**. See Campholenic acid.
- Hydroxycamphoronic acids** (KACHLER and SPITZER), 1883, A., 1008; 1889, A., 158.
- Hydroxycarbamidophenol** (KALCKHOFF), 1883, A., 1110.
- Hydroxycarbimidophenol** (BENDER), 1887, A., 245.
- Hydroxycarbon compounds**, action of non-metallic nitrides and hydro-nitrides on (VIDAL), 1892, A., 1311.
- 3'-Hydroxycarbostyryl** (FRIEDLÄNDER and WEINBERG), 1883, A., 351.
- 4'-Hydroxycarbostyryl** (v. BAEYER and BLOEM), 1883, A., 197.
 3'-nitroso- (*guinisatoxime*) (v. BAEYER and HOMOLKA), 1884, A., 1029.
- α -Hydroxy-*o*-carboxycinnamic lactone** (BAMBERGER and KITSCHOLT), 1892, A., 857.
- Hydroxycarboxylic acids**, aromatic, anhydrides of (SCHIFF), 1883, A., 335.
- Hydroxycarboxymethylquinoxaline-ureide** (HINSBERG), 1885, A., 909.
- Hydroxycarboxytolylglyoxylic acid**, dibromo- (*dibromohydroxymethylbenzoyldicarboxylic acid*) (WILL and LEY-MANN), 1886, A., 253.
- Hydroxycellulose**, formation of, electro-chemically (GOPPELSROEDER), 1885, A., 208.

- Hydroxyhexachloropentenecarboxylic acid** (ZINCKE and KÜSTER), 1888, A., 1277.
- α -Hydroxycinchomeric acid** (*2-hydroxy-quinoline-3:4-dicarboxylic acid*) (WEIDEL and STRACHE), 1886, A., 951.
- Hydroxycinchonic acid** (*2'-hydroxy-quinoline-4'-carboxylic acid*) (KÖNIGS and KÖRNER), 1884, A., 84.
- α -Hydroxycinchonine** and its derivatives (JUNGFLEISCH and LÉGER), 1888, A., 380, 507; 1889, A., 906.
- β -Hydroxycinchonine** (JUNGFLEISCH and LÉGER), 1888, A., 380, 507.
- Hydroxycinnamic acid.** See Coumaric acid.
- Hydroxycinnoline** and its derivatives (v. RICHTER), 1883, A., 1105; (BUSCH and KLETT), 1892, A., 1494.
- Hydroxycitraconic acid** and its derivatives (SCHERKS), 1885, A., 513; (MELIKOFF and FELDMANN), 1890, A., 29.
- Hydroxycitric acid** (v. LIPPMANN), 1883, A., 913.
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- Hydroxycitronic acid** (v. LIPPMANN), 1884, A., 939.
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- Hydroxycomazine**, and its derivatives (KRIPPENDORFF), 1885, A., 1243.
- Hydroxycoumenamic acid.** See 3:4:5-Trihydroxypicolinic acid.
- Hydroxy-compounds**, action of aluminium chloride on (CLAUS and MERCKLIN), 1886, A., 143.
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- Hydroxycouiniine**, tribromo- (v. HOFMANN), 1885, A., 563.
- Hydroxy-*m*-coumaric acid** and its derivatives (LUDWIG), 1885, A., 664.
- m*-Hydroxycoumarilic acid** (HANTZSCH), 1887, A., 262.
- m*-Hydroxycoumarin** (v. PECHMANN and WELSH), 1884, A., 1316; (BIZZARRI), 1885, A., 901.
- Hydroxycroconic acid.** See Leuconic acid.
- Hydroxycumidine**, and the action of acetic anhydride on (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Hydroxycumylacrylic acids**, *a* and *m*- (WIDMAN), 1886, A., 466, 467.
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- Hydroxycyanuric disulphide** (KLASON), 1886, A., 325.
- Hydroxycymene**, bromo- (MAZZARA), 1886, A., 1017.
- γ -Hydroxydecylic acid** (SCHNEEGANS), 1885, A., 650.
- Hydroxydehydroacetic acid** and its acetyl-compound (PERKIN and BERNHART), 1884, A., 1121; (PERKIN), 1887, T., 491, 492.
- Hydroxydeoxybenzoin** (NEY), 1888, A., 1197.
- Hydroxy-*m*-diazines** (v. MEYER), 1890, A., 68.
- Hydroxydiethylallylamine**, chloro- (REBOUL), 1884, A., 578.
- 6-Hydroxy-2:4-diethyl-*m*-diazine-5-carboxylic acid** (v. MEYER), 1889, A., 686.
- Hydroxydifurfurylcyanidine** (PINNER), 1892, A., 1008.
- Hydroxydihydropyridinecarboxylic acid**, aldehyde of (OST), 1883, A., 793.
- 2'-Hydroxydihydroquinoline.** See Hydrocarbostyrl.
- Hydroxydihydroquinolone** (ERLENMEYER and LIPP), 1883, A., 993.
- Hydroxydihydroquinoxaline** (PLÖCHL), 1886, A., 351.
- Hydroxydiketodihdropentene**, tribromo- (NEF), 1890, A., 1272.
- Hydroxydiketohexene**, pentabromo- (ZINCKE and KEGEL), 1890, A., 1109.
- Hydroxydiketohydrindocarboxylic acid**, dichloro- (ZINCKE), 1888, A., 489.
- Hydroxydiketopentamethylenecarboxylic acid**, *mono*- and *di*-chloro- (HANTZSCH), 1890, A., 131, 132.
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- 4'-Hydroxydimethylamido- α -naphthaquinone** (MYLIUS), 1885, A., 803.
- Hydroxydimethylamidoquinone** (KEHRMANN), 1890, A., 757.
- Hydroxy-2:3-dimethylbenzoic acid** (JACOBSEN), 1887, A., 36.
- 2-Hydroxy-3:5-dimethylbenzoic acid** (*hydroxygentic acid*) (GUNTER), 1884, A., 1347.

- 2-Hydroxy-4:6-dimethylbenzoic acid (JACOBSEN), 1886, A., 709.
- Hydroxydimethylbutyrolactonecarboxylic acid** (ZELINSKY), 1892, A., 436.
- 6-Hydroxy-2:4-dimethyl-*m*-diazine (PINNER), 1886, A., 46; 1889, A., 1006.
- 4-Hydroxy-2:6-dimethyl-*m*-diazine, 5-bromo-, hydrobromide of (PINNER), 1887, A., 1054.
- β -Hydroxydimethylethylamine (KNORR), 1889, A., 905.
- 6-Hydroxy-2:5-dimethyl-4-ethyl-*m*-diazine (V. MEYER), 1890, A., 69.
- 6-Hydroxy-4:5-dimethyl-2-ethyl-*m*-diazine (PINNER), 1889, A., 1007.
- β -Hydroxy- α -dimethylisohexoic acid (WOHLBRÜCK), 1887, A., 1099.
- Hydroxydimethylidoheptamethylene** (KIPPING and PERKIN), 1891, T., 224.
- β -Hydroxydimethylnaphthaquinoline-sulphonic acid (REED), 1887, A., 681.
- Hydroxydimethylpurin** (FISCHER), 1884, A., 997.
- 1-Hydroxy-2:5-dimethylpyrroline-3-carboxylic acid (KNORR), 1887, A., 275.
- 4'-Hydroxy-2:2'-dimethylquinazoline (NIEMENTOWSKI), 1888, A., 837.
- Hydroxy-2':3'-dimethylquinoline** [m.p. 44°] (BEYER), 1886, A., 630.
- 1-Hydroxy-2':4'-dimethylquinoline (ENGLER and BAUER), 1889, A., 524.
- 3-Hydroxy-2':4'-dimethylquinoline (ENGLER and BAUER), 1889, A., 525.
- * 4'-Hydroxy-1':2'-dimethylquinoline. See 4'-Oxy-1':2'-dimethylquinoline.
- 4-Hydroxy-1:3-dimethylquinoline (NÖLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- 4'-Hydroxy-2':3'-dimethylquinoline (CONRAD and LIMPACH), 1892, A., 78.
- Hydroxydimethylquinoxaline** (HINSBERG), 1884, A., 1053; 1889, A., 280; 1892, A., 1359.
- di*bromo- (NASTVOGEL), 1889, A., 238.
- Hydroxydimethylsulphonebenzide** (*di-hydroxyditolylsulphone*) (TASSINARI), 1889, A., 246.
- p*-Hydroxydiphenyl and its derivatives (KAISER), 1890, A., 898.
- synthesis of, from aniline (HIERSCH), 1891, A., 437.
- Hydroxydiphenyl**, *di*amido- (WEINBERG), 1888, A., 285; (GRIESS and DUISBERG), 1890, A., 59.
- Hydroxydiphenyl bases** (WEINBERG), 1888, A., 285.
- Hydroxydiphenyl triketone** (SÜDERBAUM), 1891, A., 1043.
- Hydroxydiphenylamine**, *d*initro- [m.p. 190°] (NIETZKI and SCHÜNDELEN), 1892, A., 310.
- thio- (BERNTHSEN), 1885, A., 260; 1886, A., 55.
- o*-Hydroxydiphenylamine, *d*initro- (SCHÖPFF), 1889, A., 772.
- m*-Hydroxydiphenylamine and its derivatives (CALM), 1884, A., 591.
- p*-amido and *p*-nitroso- (KÖHLER), 1888, A., 587.
- p*-Hydroxydiphenylamine and its derivatives (CALM), 1884, A., 592; (PHILIP and CALM), 1885, A., 155.
- Hydroxydiphenylbenzyl-maleide and -maleimidine**, nitro- (COHN), 1892, A., 485, 486.
- γ -Hydroxy- γ -diphenylbutyric acid (AUGER), 1888, A., 952.
- o*-Hydroxydiphenylcarbamide (LEUCKERT), 1890, A., 761.
- Hydroxydiphenylecyanidine** (PINNER), 1890, A., 497.
- 6-Hydroxy-2:4-diphenyl-*m*-diazine, formation of (PINNER), 1889, A., 1008; (SCHWARZE), 1890, A., 1159.
- 6-Hydroxy-2:4-diphenyl-*m*-diazine-5-carboxylic acid (V. MEYER), 1890, A., 68.
- 4'-Hydroxydiphenyl-2:2'-disulphonic acid, 4-amido- (LIMPRICHT), 1891, A., 929.
- Hydroxydiphenylene ketone**, and its derivatives (RICHTER), 1884, A., 325.
- Hydroxydiphenylethane** (KOENIGS), 1891, A., 208; (KOENIGS and CARL), 1892, A., 466.
- Hydroxydiphenylethylamine** and its derivatives (GOLDSCHMIDT and POŁONOWSKA), 1887, A., 492; (ZANETTI), 1891, A., 726.
- Hydroxydiphenylmethane-di- and -tricarboxylic acids** (JUILLARD), 1888, A., 707.
- 6-Hydroxy-2:4-diphenyl-5-methyl-*m*-diazine (V. MEYER), 1889, A., 578; 1890, A., 68.
- formation of (SCHWARZE), 1890, A., 1159.
- m*-Hydroxydiphenylnitrosamine (KÖHLER), 1888, A., 587.
- Hydroxydiphenylpropionic acid** (LIEBERMANN and HARTMANN), 1891, A., 1484.
- Hydroxydiphenylpropylenediamine** (FAUCONNIER), 1888, A., 1281.
- p*-Hydroxydiphenylquinoxaline (AUTENRIETH and HINSBERG), 1892, A., 733.

- 3-Hydroxydiphenyl-6-sulphonic acid, 4:4'-diamido- (WEINBERG), 1888, A., 285.
- Hydroxydiphthalyl (GRAEBE and GUYE), 1886, A., 882.
- Hydroxydipropylamine platinochloride (LIEBERMANN and PAAL), 1883, A., 910.
- Hydroxydiquinolyl (WEIDEL and GLÄSER), 1886, A., 949; (WEIDEL), 1887, A., 848.
- 1-Hydroxy-4:2'-disulpho- β -naphthoic acid (KÖNIG), 1889, A., 719.
- Hydroxyditolylecyanidine (PINNER), 1892, A., 1008.
- 2'-Hydroxy-5:5'-ditolyl-4:4'-disulphonic acid, 2-amido- (HELLE), 1892, A., 1468.
- Hydroxydixanthenes (v. KOSTANECKI and NESSLER), 1892, A., 504; (v. KOSTANECKI and SEIDMANN), 1892, A., 1097.
- Hydroxydurylic acid (JACOBSEN and SCHNAPAUFF), 1886, A., 68.
- Hydroxy- β -isodurylic acid (KROHN), 1888, A., 594.
- Hydroxyethanedisulphonic acid, salts of (MONARI), 1885, A., 970.
- Hydroxyethanesulphonic acid. See Isethionic acid.
- Hydroxyethenylamylacetic acid (POETSCH), 1883, A., 730.
- Hydroxyethoxyanthraquinone (LIEBERMANN and JELLINEK), 1888, A., 716.
- Hydroxyethoxydiphenylamine, dinitro- (NIETZKI and KAUFMANN), 1892, A., 314.
- Hydroxyethoxymethylquinoxaline (AUTENRIETH and HINSBERG), 1892, A., 733.
- 6-Hydroxy-2-*p*-ethoxyphenyl-5-benzyl-4-methyl-*m*-diazine (PINNER), 1891, A., 64.
- 6-Hydroxy-2-*p*-ethoxyphenyl-*m*-diazine-4-carboxylic acid (PINNER), 1891, A., 64.
- 6-Hydroxy-2-*o*- and -*p*-ethoxyphenyl-4-methyl-*m*-diazines (PINNER), 1891, A., 64.
- 6-Hydroxy-2-*p*-ethoxyphenyl-4-phenyl-*m*-diazine (PINNER), 1891, A., 64.
- Hydroxyethoxypyridine [m.p. 128°] (WEIDEL and BLAU), 1886, A., 76.
- 2-Hydroxyethoxypyridine, dichloro-4-amido- (STOKES and v. PICHMANN), 1887, A., 157.
- 1-Hydroxy-1-ethoxyquinoline, 2:4-dichloro- (HEBERAND), 1889, A., 61.
- 4'-Hydroxy-2'-ethoxyquinoline (BISCHOFF), 1889, A., 519.
- Hydroxyethylacetamide picrate (GABRIEL), 1889, A., 1134.
- Hydroxyethyl-*o*-amidophenol (KNORR), 1889, A., 1219.
- Hydroxyethylamine (*amidoehtylic alcohol*) nitrate (GABRIEL), 1888, A., 1268.
- salts (GABRIEL), 1888, A., 440.
- Hydroxyethylaniline, preparation of (KNORR), 1889, A., 1219; (OTTO), 1891, A., 1373.
- Hydroxyethyl-*o*-anisidine (KNORR), 1889, A., 1219.
- Hydroxyethylbenzamide (GABRIEL), 1889, A., 1134.
- Hydroxyethylbenzoic acid (*phlorol-carboxylic acid*) (OLIVERI), 1884, A., 174.
- o*-chloronitro-, lactone of (ZINCKE and LATTEN), 1892, A., 1230.
- γ -Hydroxy- α -ethylbutyric acid and its salts (CHANLAROFF), 1885, A., 375.
- Hydroxyethyl-*m*-diazine-2-carboxylic acid (PINNER), 1892, A., 1008.
- 1-Hydroxy-1'-ethylenehydroquinoline (KÖHN), 1886, T., 508.
- Hydroxyethylethylaniline (*phenyldiethylalkine*) (LAUN), 1884, A., 1011.
- 5-Hydroxyethyl-2-ethylpiperidine (2:5-methylethylpiperidylalkine) (PRAUSNITZ), 1892, A., 1358.
- 2-Hydroxyethyl-5-ethylpyridine (*methylethylpyridylalkine*) (PRAUSNITZ), 1890, A., 1436.
- δ -Hydroxyethylhexoic acid, salts of (FITTIG and CHRIST), 1892, A., 962.
- Hydroxyethylhydroxyquinoline and salts of (WURTZ), 1883, A., 923.
- Hydroxyethyl sodium thiosulphate (PURGOTTI), 1892, A., 1418.
- Hydroxyethylidene-2'-methyl- β -naphthaquinoline, trichloro- (SEITZ), 1889, A., 527.
- Hydroxyethylmethylamine (KNORR), 1889, A., 1218.
- Hydroxyethylmethylaniline (*phenylmethylethylalkine*) and its derivatives (LAUN), 1884, A., 1011.
- Hydroxyethylmethyl-*o*-anisidine (KNORR), 1889, A., 1220.
- 2-Hydroxyethyl-1-methylpiperidine (*methyl- α -piperidylalkine*) and its derivatives (LADENBERG), 1890, A., 68; 1891, A., 1093; (LIPP), 1892, A., 1245.
- 2-Hydroxyethyl-1-methyltetrahydropyridine (LIPP), 1892, A., 1244.
- Hydroxyethylnaphthylamines (OTTO), 1891, A., 1374.
- Hydroxyethylphosphinic acid (FOSSEK), 1886, A., 530.

- Hydroxyethyl-phthalamie acid** and -phthalimide (GABRIEL), 1888, A., 440.
- 2-Hydroxyethylpiperidine** (LADENBURG), 1890, A., 67; 1891, A., 1093.
- ω -Hydroxyethylpiperonylcarboxylic acid** (PERKIN), 1890, T., 996, 1020. oxidation of (PERKIN), 1890, T., 1022. salts of (PERKIN), 1890, T., 1023. bromo- (PERKIN), 1890, T., 1025.
- ω -Hydroxyethylpiperonylcarboxylic anhydride** (PERKIN), 1890, T., 1021. bromo- and nitro- (PERKIN), 1890, T., 1025, 1027.
- Hydroxyethylpropylamine** and its platinochloride (LIEBERMANN and PAAL), 1883, A., 910.
- Hydroxyethylpropylaniline** (LAUN), 1884, A., 1011.
- 2-Hydroxyethylpyridine** (*α -picotyl-alkine*) and derivatives of (LADENBURG), 1890, A., 67; 1891, A., 1092.
- ω -Hydroxyethylpyrocatecholcarboxylic anhydride** (PERKIN), 1890, T., 1027.
- 4-Hydroxy-3'-ethylquinoline, 2'-chloro-** (RÜGHEIMER and SCHRAMM), 1887, A., 738.
- 1-Hydroxy-1'-ethyltetrahydroquinoline** (FISCHER), 1883, A., 1146; (FISCHER and RENOUF), 1884, A., 1049. ethiodide (KOHN), 1886, T., 505.
- 4-Hydroxy-1'-ethyltetrahydroquinoline** (RIEMERSCHMIED), 1883, A., 1148.
- Hydroxyethyltheobromine** (FISCHER), 1883, A., 357.
- Hydroxyethyltrihydroquinolinecarboxylic acid** (LIPPMANN and FLEISSNER), 1887, A., 1120.
- Hydroxyethyltrimethylammonium platinochloride** (BODE), 1892, A., 807.
- Hydroxyethyltrimethylenecarboxylic acid** (MARSHALL and PERKIN), 1891, T., 870.
- γ -Hydroxyethylvaleric acid** (YOUNG), 1883, T., 177.
- Hydroxyethylxanthine** (LEHMANN), 1890, A., 32.
- Hydroxy- ψ -flavenol** (WEIDEL and BAMBERGER), 1888, A., 966.
- Hydroxyfluorene-carboxylic acid** (GRAEBE and AUBIN), 1889, A., 146.
- Hydroxyfurfuryl-**. See Furfuryl-.
- Hydroxygluconic acid** (BOUETROUX), 1890, A., 1399.
- α -Hydroxyglutaric acid** (WOLFF), 1891, A., 421.
- β -Hydroxyglutaric acid** (v. PECHMANN and JENISCH), 1892, A., 147.
- α -Hydroxy- β -halogen lactic acids**, distillation of, with water (MELIKOFF and PETRENKO-KRITSCHENKO), 1890, A., 736.
- Hydroxyheptoic acid** (FITTIG and SCHMIDT), 1890, A., 589. salts of (YOUNG), 1883, A., 455.
- Hydroxyisheptoic acid** (FITTIG and ZANNER), 1890, A., 590.
- Hydroxyheptylphosphinic acid** (FOSSEK), 1886, A., 529.
- β -Hydroxyheptylsuccinic acid** (*heptamalic acid*) and its salts (SCHNEEGANS), 1885, A., 650.
- Hydroxyhexanedisulphonic acid**, barium salt of (LUDWIG), 1889, A., 121.
- Hydroxyhexic acid**. See Propylsuccinic acid.
- Hydroxyisohexic acid**. See *iso*Propyl-tartaric acid.
- γ -Hydroxyhexoamide** (FITTIG and DUBOIS), 1890, A., 880.
- Hydroxyhexoic acid** (HANTZSCH and WOHLERÜCK), 1887, A., 717.
- γ -Hydroxyhexoic acid**, ammonium salt of (FITTIG and DUBOIS), 1890, A., 880. lactone of, conversion of gluconic acid into (KILIAN and KLEEMANN), 1884, A., 730, 993. action of sodium ethylate on (FITTIG), 1885, A., 375; (FITTIG and DUBOIS), 1890, A., 868.
- γ -Hydroxyisohexoic acid**, lactone of, action of sodium ethylate on (ERDMANN), 1885, A., 963. action of water and of hydriodic acid on (FITTIG and RÜHLMANN), 1885, A., 375.
- δ -Hydroxyhexoic acid**, α - and β -lactones of (GOTTSTEIN), 1883, A., 454.
- Hydroxyhydrastinine** and its derivatives (FREUND and WILL), 1887, A., 1057.
- α -Hydroxyhydrindenecarboxylamide**, tetrachloro- (ZINCKE and ARNST), 1892, A., 858.
- Hydroxyhydrocarbostyryl** (2':4'-*dihydroxy-3':4'-dihydroquinoline*) (EINHORN), 1884, A., 1338.
- 3-chloro-** (EICHENGRÜN and EINHORN), 1890, A., 1128; 1891, A., 1100.
- Hydroxyhydro-*p*-coumaric acid** (BLENDERMANN), 1883, A., 818.
- Hydroxyhydrocyanomesitenelactone** (OBRÉGIA), 1892, A., 325.
- Hydroxyhydroisodehydracetic acid**, nitrile of (OBRÉGIA), 1892, A., 325.
- Hydroxyhydrodiphthalyllic acid** (WISLICENUS), 1885, A., 57.

- Hydroxyhydrolapachol** (HOOKER), 1892, T., 628.
- Hydroxyhydromuconic acid**, lactone of (RUHEMANN), 1890, T., 942.
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1. **Hydroxyhydroquinoline** (SKRAUP), 1883, A., 93.
2. **Hydroxyhydroquinoline** (SKRAUP), 1883, A., 96; (RIEMERSCHMIED), 1883, A., 1148.
3. **Hydroxyhydroquinoline** (SKRAUP), 1883, A., 94.
- Hydroxyhydroquinoxalines** (HINSBERG), 1889, A., 280.
- Hydroxyimidomethyluracil** (JAEGER), 1891, A., 1007.
- Hydroxyimido-methyl- and -phenyl-synoxazolones** (NUSSBERGER), 1892, A., 1175, 1177.
- Hydroxyindazine** (WITT, NÖLTING and GRANDMOUGIN), 1891, A., 312.
- Hydroxyindenecarboxylic acid** (*hydroindonecarboxylic acid*) (ZINCKE), 1887, A., 728.
- Hydroxyindone**, bromo- (ROSER and HASELHOFF), 1888, A., 1304; (MELDOLA and HUGHES), 1890, T., 400.
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- Hydroxyketohydrindenecarboxylamide**, dichloro- (ZINCKE and ARNST), 1892, A., 858.
- Hydroxyketohydrindenecarboxylic acid**, dibromo-, dichloro-, and chloro-bromo- (ZINCKE and GERLAND), 1888, A., 1199, 1198.
- Hydroxyketoindene**, chloro- and bromo- (ZINCKE and GERLAND), 1888, A., 1199, 1200.
- γ_1 -**Hydroxy- α_1 -ketojuloline** and β_1 -nitroso- (KAYSER and REISSERT), 1892, A., 884.
- Hydroxyketone-dyes** (GRAEBE and EICHENGRÜN), 1891, A., 706; 1892, A., 1224.
- Hydroxyketones**, aromatic (CRÉPIEUX), 1892, A., 62.
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- Hydroxyl group**, influence of certain groups on the thermochemical value of, in the aromatic series (ALEXEEFF and WERNER), 1890, A., 439.
- Hydroxyl group**, reagent for (LAND-WEHR), 1887, A., 124; (HINSBERG), 1891, A., 49.
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- Hydroxylamine** (DIVERS and SHIMIDZU), 1885, T., 612.
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- Hydroxylamine**, poisonous action of (LOEW), 1885, A., 830.
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- Hydroxylamine salts**, action of, on plants (MEYER and SCHULZE), 1884, A., 1210.
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- Hydroxylaminedisulphonic acid**, preparation of the alkali salts of (RASCHIG), 1888, A., 913.
- Hydroxylaminesulphonates** and their conversion into hyponitrites (DIVERS and HAGA), 1889, T., 760; P., 146.
- Hydroxy- β -lapachone** (HOOKER), 1891, A., 1240; 1892, T., 649.
- Hydroxylation** by direct oxidation (MEYER), 1883, A., 983, 1072.
- Hydroxylepidine**. See Hydroxy-4'-methylquinoline.
- Hydroxylevulinic acids**, α - and β - (WOLFF), 1891, A., 1187, 1185.
- Hydro-xyloquinone**. See Xyloquinol.
- Hydroxylutidinedicarboxylic acid**, ethylic salt of (COLLIE), 1885, A., 374.
- Hydroxymaleic acid** (SCHERKES), 1884, A., 993; 1885, A., 513.
- Hydroxymalonic acid**. See Tartronic acid.
- o*-Hydroxymandelic acid** (v. BAeyer and FRITSCH), 1884, A., 1022.
- Hydroxymellitic acid** (*hydrotrimellitic acid*) and its salts (JACOBSEN and MEYER), 1883, A., 590.
- Hydroxymesitenedicarboxylic acid** (HANTZSCH), 1883, A., 1083.
- Hydroxymethanesulphonie acid**, sodium salt of (KRAUT, ESCHWEILER and GROSSMANN), 1890, A., 1092.
- Hydroxymethenylamidophenol** (SANDMEYER), 1887, A., 135; (BENDER), 1887, A., 245.
- Hydroxymethenyltolylenediamine** (SANDMEYER), 1887, A., 135.
- o*-Hydroxy-*p*-methoxyacetophenone** (NAGAI), 1892, A., 59.
- 2-Hydroxy-4-methoxyallylbenzene** (v. PECHMANN and COHEN), 1884, A., 1331.
- p*-Hydroxy-*o*-methoxybenzaldehyde-phenylhydrazone** (MARCUS), 1892, A., 317.
- 1-Hydroxy-3-methoxybenzene, 4-amido-** (BECHHOLD), 1889, A., 1155.
- p*-Hydroxy-*m*-methoxybenzoylformic acid** (*hydroxymethoxyphenylglyoxylic acid*; *vanilloyl acid*) (TIEMANN), 1892, A., 64.
- m*-Hydroxy-*o*-methoxycinnamic acid** (SCHNELL), 1884, A., 1165; 1887, A., 140.
- 4'-Hydroxy-1- and -3-methoxy-2'-methylquinolines** (CONRAD and LIMPACH), 1888, A., 854, 853.
- Hydroxymethoxyquinoline** (LA COSTE and VALEUR), 1887, A., 973.
- 2'-Hydroxy-3-methoxyquinoline** (*methoxy-carbostyryl*) (EICHENGRÜN and EINHORN), 1891, A., 1101.
- Hydroxymethoxytoluene** (*hydroxytolyl methyl ether*) (LIMPACH), 1889, A., 499.
- Hydroxymethylbenzene pentaketone** (KEHRMANN), 1888, A., 940.
- Hydroxy- β -methyl- γ -acetoxime- δ -is-nitrosoamidovaleric acid**, lactam of (OBRÉGIA), 1892, A., 326.
- Hydroxymethylacridine** (BESTHORN and CURTMAN), 1891, A., 1233.
- Hydroxymethylantraquinone**, and its acetyl-derivative (ROEMER and LINK), 1883, A., 1139.
- Hydroxymethylantraquinones**, spectra of (LIEBERMANN and v. KOSTANECKI), 1887, A., 1.

- m*-Hydroxymethylbenzaldehyde (TIEMANN and LUDWIG), 1883, A., 189.
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- Hydroxymethylbenzoic acid. See Hydroxytoluic acid.
- Hydroxymethylbenzoyldicarboxylic acid, dibromo- (*dibromohydroxy-carboxylglyglyoxylic acid*) (WILL and LEYMAN), 1886, A., 253.
- 3'-Hydroxymethyl-4'-dibromomethylquinoxaline (NASTVOGEL), 1889, A., 238.
- Hydroxy- α -methylbutyric acids, α - and β -. See Hydroxyvaleric acids.
- 4'-Hydroxy-1-methylcarbostyryl, 3'-chloro- (*chlorohydroxy-o-tolucarbostyryl*) (RÜGHEIMER and HOFFMANN), 1886, A., 160.
- 6:4-Hydroxymethylcinnamic acid, anhydride of (v. PECHMANN and WELSH), 1884, A., 1346.
- Hydroxymethyl-coniferin and -coniferyl alcohol (KÖRNER), 1889, A., 159.
- Hydroxy- β -methylcoumarilic acid, bromo- (v. PECHMANN and COHEN), 1884, A., 1332.
- Hydroxymethylcoumarone (HANTZSCH), 1887, A., 262.
- Hydroxy- β -methyl- γ -cyanacetylbutyronitrile (OBRÉGIA), 1892, A., 325.
- 4-Hydroxy-6-methyl-*m*-diazine-2-carboxylic acid (PINNER), 1892, A., 1008.
- 6-Hydroxy-4-methyl-2:5-diethyl-*m*-diazine (PINNER), 1889, A., 1007.
- 6-Hydroxy-5-methyl-2:4-diethyl-*m*-diazine (v. MEYER), 1889, A., 577, 685.
 oxime of (v. MEYER), 1889, A., 685.
- Hydroxy-4'-methyldihydroquinoline (KNORR and KLOTZ), 1887, A., 278.
- Hydroxymethyldihydroquinoxaline (PLOCHL), 1886, A., 351; (LEUCKART and HERMANN), 1887, A., 383.
- Hydroxymethyldiphenyl, diamido- (WEINBERG), 1888, A., 285.
- Hydroxymethyleneacetone, stereoisomerism of (CLAISEN), 1892, A., 1073.
- Hydroxymethylenediphenyl triketone (SÖDERBAUM), 1891, A., 1043.
- Hydroxymethylenequinolinium base (CLAUS, HOWITZ, MASSAN and RAUS), 1892, A., 878.
- 4'-Hydroxy-1-methyl-3'-ethylcarbostyryl (RÜGHEIMER and SCHRAMM), 1887, A., 738; 1888, A., 502.
- 6-Hydroxy-4-methyl-2-ethyl-*m*-diazine (PINNER), 1886, A., 46; 1889, A., 1007.
- 4-Hydroxy-6-methyl-2-ethyl-*m*-diazine 5-bromo- (PINNER) 1887, A., 1054.
- 4'-Hydroxymethylethylquinoline (CONRAD and LIMPACH), 1892, A., 79.
- 4'-Hydroxy-1-methyl-3'-ethylquinoline, 2'-chloro- (RÜGHEIMER and SCHRAMM), 1887, A., 738.
- Hydroxymethylglutaric acid from levulinic acid and the corresponding lactonic acid (KRECKELER and TOLLENS), 1885, A., 1202; (BLOCK and TOLLENS), 1886, A., 533.
- Hydroxymethylhydrohydrastinine methiodide, bromo- (FREUND and DORMEYER), 1891, A., 1520.
- 2'-Hydroxy-3'-methylhydroquinoline, 2-amido-. See Methylhydrocarbostyryl, 2-amido-.
- 6-Hydroxy-4-methyl-2-hydroxyisopropyl-*m*-diazine (PINNER), 1890, A., 70.
- α_1 -Hydroxy- γ_1 -methyljulolidine, $\beta_1\beta_1\gamma_1$ -tribromo- (REISSERT), 1892, A., 498.
- α_1 -Hydroxy- γ_1 -methyljuloline (REISSERT), 1892, A., 497.
 β_1 -bromo- and $\beta_1\gamma_1$ -dibromo- (REISSERT), 1892, A., 497.
- "Hydroxymethylmalonic acid" (TANATAR), 1891, A., 175.
- 4'-Hydroxy-2'-methyl- α - and - β -naphthaquinolines (*naphtha- γ -hydroxyquinolines*) (KNORR), 1884, A., 1198; (CONRAD and LIMPACH), 1888, A., 504.
- 4-Hydroxy-2'-methylphenofurfuran-1'-carboxylic acid, 1:2:3-*tri*-chloro- (IKUTA), 1892, A., 609.
- 4-Hydroxymethyl-1-phenyl-3-methylpyrazolone (PELLIZZARI), 1889, A., 518.
- Hydroxy- α -methyl-phthalanil and -phthalanilic acid (NIEMENTOWSKI), 1892, A., 608.
- Hydroxymethylphthalic anhydride, dibromo- (WILL and LEYMAN), 1886, A., 253.
- Hydroxymethylpurin (FISCHER), 1884, A., 997.
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- 4'-Hydroxymethylpyridine, and its derivatives (LIEBEN and HATTINGER), 1884, A., 1196.
- Hydroxymethylpyridone and its derivatives (BELLMANN), 1884, A., 841.

- Hydroxymethylpyrotartaric acid** (*methyltartaric acid*), salts of (FITTIG and FRÄNKEL), 1890, A., 585.
- 4'-Hydroxy-2-methylquinazoline** (NEMENTOWSKI), 1889, A., 1065.
- 4'-Hydroxy-2'-methylquinazoline**, nitro- and chloro- (DEHOFF), 1890, A., 802.
- Hydroxymethylquinazoline**. See also Oxymethylquinazoline.
- 1-Hydroxy-2-methylquinoline** (*hydroxytoluquinoline*) (NÖLTING and TRAUTMANN), 1891, A., 326; 1892, A., 727.
- 4-nitro- (NÖLTING and TRAUTMANN), 1891, A., 326; 1892, A., 727.
- 1-Hydroxy-2'-methylquinoline** (*o-hydroxyquinaldine*) and its derivatives (DOEBNER and v. MILLER), 1884, A., 1374.
- 1-Hydroxy-4-methylquinoline** (NÖLTING and TRAUTMANN), 1891, A., 326; 1892, A., 727.
- 2-amido- (GANELIN and v. KOSTANECKI), 1892, A., 506.
- 1-Hydroxy-4'-methylquinoline** (*hydroxytolidine*) (BUSCH and KOENIGS), 1890, A., 1435.
- 3-Hydroxy-1-methylquinoline** (HERZFELD), 1884, A., 1199.
- 3-Hydroxy-2'-methylquinoline** (*p-hydroxyquinaldine*) (DOEBNER and v. MILLER), 1884, A., 1374.
- 3-Hydroxy-4'-methylquinoline** (KOENIGS), 1890, A., 1434; (BUSCH and KOENIGS), 1890, A., 1435.
- 3-Hydroxy-4-methylquinoline**, 1-nitro- (NÖLTING and TRAUTMANN), 1891, A., 326.
- 4-Hydroxy-1-methylquinoline** (HERZFELD), 1884, A., 1199.
- 4-Hydroxy-3-methylquinoline** and nitroso- (NÖLTING and TRAUTMANN), 1891, A., 326.
- 4'-Hydroxy-1-methylquinoline**, 2':3'-dichloro- (RÜGHEIMER and HOFFMANN), 1886, A., 160.
- 4'-Hydroxy-2'-methylquinoline** (*hydroxyquinaldine*) (CONRAD and LIMPACH), 1887, A., 679; 1888, A., 1109; (KNORR), 1887, A., 847.
- synthesis of homologues of (CONRAD and LIMPACH), 1888, A., 503.
- derivatives (CONRAD and LIMPACH), 1887, A., 679; 1888, A., 1109.
- methiodide (CONRAD and ECKHARDT), 1889, A., 519.
- 2'-Hydroxy-4'-methylisoquinoline**, chloro- (GABRIEL), 1887, A., 1112.
- Hydroxymethylquinolines**, 4:1:2-, 2:1:4- and 3:4:1-nitro- (NÖLTING and TRAUTMANN), 1892, A., 727, 728, 729.
- 4'-Hydroxy-2'-methylquinoline-3'-carboxylic acid and aldehyde** (CONRAD and LIMPACH), 1888, A., 1109.
- Hydroxy-2'-methylquinolineazobenzenesulphonic acid**, sodium salt of (CONRAD and LIMPACH), 1888, A., 1109.
- 1-Hydroxy-2'-methylquinolinecarboxylic acid** (KÖNIG), 1888, A., 610.
- 2'-Hydroxy-4'-methylquinoline-1-carboxylic acid** (REISSERT), 1891, A., 737.
- 4'-Hydroxy-2'-methylquinoline-3'-carboxylic acid** (CONRAD and LIMPACH), 1888, A., 1110.
- 2'-Hydroxymethylquinolinesulphonic acid** (FEER and KOENIGS), 1885, A., 1235.
- 4'-Hydroxy-2'-methylquinolinesulphonic acid** (CONRAD and LIMPACH), 1888, A., 1110.
- Hydroxymethylquinoxaline** (*hydroxytoluquinoxaline*) (HINSBERG), 1885, A., 910; 1886, A., 561.
- Hydroxymethylquinoxalinecarboxylic acid** (HINSBERG), 1885, A., 909; (ZEHRRA), 1891, A., 304.
- Hydroxymethylsuccinic acid**, trichloro-, and its salts (FITTIG and MILLER), 1890, A., 586.
- Hydroxymethylsulphonebetaine** (CLAUS and POSSELT), 1890, A., 522.
- 5-Hydroxy-2-methylterephthalic acid** (JACOBSEN and MEYER), 1883, A., 590.
- 1-Hydroxy-1'-methyltetrahydroquinoline** (*kairin*) (FISCHER), 1883, A., 1146; (FISCHER and RENOUF), 1884, A., 1049.
- physiological properties of (FILEHNE), 1884, A., 474.
- benzyl chloride and methiodide of (KÖHN), 1886, T., 501, 506.
- 1-Hydroxy-2'-methyltetrahydroquinoline and its derivatives** (DOEBNER and v. MILLER), 1884, A., 1374.
- 2-Hydroxy-4'-methyltetrahydroquinoline and its nitro-derivatives** (FISCHER and WITTMACK), 1884, A., 1052.
- 1-Hydroxymethyltetrahydroquinolinecarboxylic acid** (SCHMITT and ENGELMANN), 1887, A., 738; (KRÓLIKOWSKI and NENCKI), 1888, A., 865.
- Hydroxymethylthiazole** (TCHERNIAC and HELLON), 1883, A., 654; (TCHERNIAC), 1892, A., 1425.

- Hydroxymethylthiazolecarboxylic acid** (ZURCHER, 1889, A., 725; (WOHLMANN) 1891, A., 226.
- Hydroxymethylthiophen** (*hydroxythiophen*) (KUES and PAAL, 1886, A., 536.
- 1-Hydroxymethyltrihydroquinoline-carboxylic acid**, behaviour of, in the organism (KROLIKOWSKI and NENCKI), 1888, A., 865.
- β -Hydroxy- α -methylvaleric acid** (HANTZSCH and WOHLERÜCK, 1887, A., 717.
- γ -Hydroxy- α -methylvaleric acid** (GOTTSTEIN), 1883, A., 455.
- Hydroxymethylxanthine** (BEHREND), 1886, A., 338; (LEHMANN), 1890, A., 32.
- β -Hydroxymethylxanthone** (v. KOSTANECKI and NESSLER), 1891, A., 1060.
- Hydroxymyristic acid** (HELL and TVERDOMEDOFF), 1889, A., 956.
- β -Hydroxy- α - and α -hydroxy- β -naphthahydroxamic acids** (JEANRENAUD), 1889, A., 871.
- Hydroxynaphthalide** (GRAEBE and GFELLER), 1892, A., 864.
- β -Hydroxynaphthaquinoline** (GENTIL), 1885, A., 561.
- Hydroxynaphthaquinone**, dibromo- (ARMSTRONG and STREATFIELD), 1886, P., 232.
- 2'-Hydroxy-1:2-naphthaquinone** (CLAUSIUS), 1890, A., 628.
- 2-Hydroxy-1:4-naphthaquinone** (*naphthalic acid*), preparation of (KOWALSKI), 1892, A., 1098.
- phenylhydrazine derivatives of (ZINCKE and THELEN), 1884, A., 1359; 1888, A., 1097.
- 3-bromo- (MILLER), 1885, A., 667.
- 3-chloro- (CLAUS and MUELLER), 1886, A., 247.
- 3-bromo- and 3-chloro-, action of hypochlorous and hypobromous acids on (ZINCKE and GERLAND), 1888, A., 1198.
- trichloro- (CLAUS), 1886, A., 714.
- tetrachloro- (CLAUS and WENZLICK), 1886, A., 713; (CLAUS), 1886, A., 714.
- 3-nitro-, derivatives of (KEHRMANN and WEICHARDT), 1889, A., 1197.
- 4'-Hydroxy-1:4-naphthaquinone** (*juglone*; *nucin*; *regianin*) (BERNTHSEN), 1884, A., 1365; (BERNTHSEN and SEMPER), 1885, A., 546; 1886, A., 363; 1887, A., 674; (MYLIUS), 1885, A., 803.
- 4'-Hydroxy-1:4-naphthaquinone** (*juglone*; *nucin*; *regianin*), identity of, with regianin and nucien (PHIPSON), 1885, A., 1142.
- synthesis of (BERNTHSEN and SEMPER), 1887, A., 674.
- constitution of (BERNTHSEN and SEMPER), 1885, A., 548.
- derivatives (BERNTHSEN and SEMPER), 1885, A., 546; (MYLIUS), 1885, A., 803.
- 2-Hydroxy-1:4-naphthaquinoneanilide** and 3-chloro- (ZINCKE and KEGEL), 1889, A., 267, 268.
- Hydroxynaphthaquinonecarboxylic acid**, chloro- (EKSTRAND), 1889, A., 153.
- 4'-Hydroxy-1:4-naphthaquinonedioxime** (*juglone dioxime*) (BERNTHSEN and SEMPER), 1886, A., 364.
- 2-Hydroxy-1:4-naphthaquinoneimide** (KRONFELD), 1884, A., 1037; (MEERSON), 1888, A., 1200.
- 3-bromo- (ZINCKE and GERLAND), 1887, A., 838.
- 3-Hydroxy-1:4-naphthaquinone-4-imide**, 2-chloro- (ZINCKE and SCHMUNK), 1890, A., 1147.
- 3-Hydroxy-1:4-naphthaquinoneoxime** (v. KOSTANECKI), 1889, A., 887.
- 2-chloro- (ZINCKE and SCHMUNK), 1890, A., 1147.
- 4'-Hydroxy-1:4-naphthaquinoneoxime** (*jugloneoxime*) (BERNTHSEN and SEMPER), 1885, A., 547.
- 2'-Hydroxy-2:1-naphthaquinoneoxime** (CLAUSIUS), 1890, A., 628.
- 2-Hydroxy-1:4-naphthaquinonesulphonic acid**, 3-chloro- (CLAUS and VAN DER CLOET), 1888, A., 603.
- Hydroxynaphthaquinoxalinecarboxylic acid** (KÜHLING), 1891, A., 1312.
- Hydroxynaphthatoluic acid** (WALDER), 1883, A., 666.
- Hydroxynaphthotrichloride diethylic orthophosphate** (WOLFFENSTEIN), 1889, A., 615.
- 1'-Hydroxy- α -naphthoic acid** (*naphthol-carboxylic acid*) (EKSTRAND), 1886, A., 715.
- chloro-, and nitro- (EKSTRAND), 1889, A., 153.
- 2-Hydroxy- α -naphthoic acid** [m. p. 157°] and derivatives (NIETZKI and GUTTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 60.
- action of phosphorus pentachloride on (RABE), 1889, A., 514.

- 1-Hydroxy- β -naphthoic acid (NIETZKI and GUTTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 59.
 constitution of (WOLFFENSTEIN), 1889, A., 615.
 action of phosphorus pentachloride on (WOLFFENSTEIN), 1887, A., 963; 1888, A., 714.
 4-amido-(NIETZKI and GUTTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 59.
- 3-Hydroxy- β -naphthoic acid [m.p. 216°] (SCHMITT and BURKARD), 1888, A., 60.
 action of aniline on (SCHÖPFF), 1892, A., 1476.
- 3-Hydroxy- β -naphthoic anilide (SCHÖPFF), 1892, A., 1476.
- 3'-Hydroxy- β -naphthoxanthone (v. KOSTANECKI), 1892, A., 1099.
- Hydroxynaphthoxanthenes (BENER), 1892, A., 1100.
- α -Hydroxynaphthyl methyl ketone (WITT), 1888, A., 486.
- β -Hydroxynaphthylacrylic acid and anhydride (KAUFFMANN), 1883, A., 1136.
- $\alpha\beta$ -Hydroxynaphthylbenzoic acid, and its derivatives (WALDER), 1883, A., 666.
- 6-Hydroxy-2- β -naphthyl-*m*-diazine-4-carboxylic acid (PINNER), 1892, A., 1008.
- 6-Hydroxy-2- β -naphthyl-4:5-dimethyl-*m*-diazine (PINNER), 1892, A., 1009.
- Hydroxynaphthyl sulphide [m.p. 214°—215°] (TASSINARI), 1887, A., 808.
- β -Hydroxynaphthyl mono- and -disulphides (ONUFROWICZ), 1891, A., 320, 321.
- 6-Hydroxy-2- β -naphthyl-4-methyl-*m*-diazine (PINNER), 1892, A., 1009.
- Hydroxynaphthylphenyl, diamido-, derivatives of (MELDOLA and MORGAN), 1889, T., 124, 125.
- Hydroxy- α -naphthylthiocarbamide (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1127; 1891, A., 558.
- 2-Hydroxynicotinic acid (2-hydroxypyridine-3-carboxylic acid) (WEIDEL and STRACHE), 1886, A., 951.
- 6-Hydroxynicotinic acid (6-hydroxypyridine-3-carboxylic acid) and its derivatives (KOENIGS and GEIGY), 1884, A., 1195; (v. PECHMANN and WELSH), 1885, T., 150; A., 174; (v. PECHMANN), 1885, A., 176.
- 6-Hydroxynicotinic acid (6-hydroxypyridine-3-carboxylic acid), preparation of, from hydroxyquinolinic acid (KOENIGS and GEIGY), 1884, A., 945.
- Hydroxynitroethenylamido- α -naphthol (MEERSON), 1888, A., 713.
- α -Hydroxy-*o*-nitrophenylbutene- ω -dicarboxylic acid (EINHORN and GERENBECK), 1890, A., 163.
- Hydroxyoctoic acid (HANTZSCH), 1889, A., 372.
 salts of (YOUNG), 1883, A., 456; (FITZIG and CHRIST), 1892, A., 962.
- Hydroxyoleic acid and its salts (LIECHTI and SUIDA), 1884, A., 239.
- Hydroxyiso-oxazoledicarboxylic acid (v. PECHMANN), 1891, A., 738.
- Hydroxyoxindole chloride, amido-(JACKSON and BENTLEY), 1892, A., 1219.
- Hydroxyoxydipropionic acid, chloro- (WILLGERODT and SCHIFF), 1890, A., 959.
- α -Hydroxypalmitic acid (HELL and IORDANOFF), 1891, A., 820.
- Hydroxyptanetricarboxylic anhydride (dicarboxaprolactonic acid) and its derivatives (HJELT), 1883, A., 970.
- Hydroxypentene, tetramido- (NIETZKI and ROSEMAN), 1889, A., 770.
- α -Hydroxypentene cyanide, $\gamma\gamma$ -hexachloro- (ZINCKE and KÜSTER), 1890, A., 1256.
- Hydroxypentenecarboxylic acid, $\gamma\gamma$ -hexachloro- (ZINCKE and KÜSTER), 1890, A., 754.
- Hydroxyptic acid, identity of, with ethyltartaric acid (GORBOFF), 1888, A., 1179.
- Hydroxyperezone (*hydroxypipitzaohic acid*) (ANSCHÜTZ and LEATHER), 1886, T., 728.
 and its salts (MYLIUS), 1885, A., 778.
 dibromide (ANSCHÜTZ and LEATHER), 1886, T., 732.
- Hydroxyphenanthraquinonephosphinic acid (FOSSEK), 1886, A., 530.
- Hydroxyphenanthraquinones (ANSCHÜTZ and MEYER), 1885, A., 1067.
- p*-Hydroxyphenanthrazine (AUTENRIETH and HINSBERG), 1892, A., 733.
- Hydroxyphenanthridine (PICTET and ANKERSMIT), 1892, A., 197.
- Hydroxyphenanthroline (LA COSTE), 1883, A., 811.
- Hydroxyphenindulone, chloro- (KEHRMANN and MESSINGER), 1891, A., 747.
- Hydroxyphenonaphthoxanthone (v. KOSTANECKI), 1892, A., 1099; (BENER), 1892, A., 1100.
- Hydroxyphenyl ethyl ketone. See Propionylphenol.

- Hydroxyphenyl hydroxy- α - and - β -naphthyl ketones** (PHOMINA), 1890, A., 389, 901.
- Hydroxyphenyl mercaptan** (HAITINGER), 1883, A., 989.
- Hydroxyphenyl hydroxytolyl ketone** (PHOMINA), 1890, A., 389.
- p*-Hydroxyphenylacetamide** (SALKOWSKI), 1889, A., 1173.
- Hydroxyphenylacetamidine and its hydrochloride** (BEYER), 1884, A., 65; 1885, A., 982.
- o*-Hydroxyphenylacetic acid and its derivatives** (V. BAEYER and FRITSCH), 1884, A., 1021.
- m*-Hydroxyphenylacetic acid** (SALKOWSKI), 1884, A., 1176.
- p*-Hydroxyphenylacetic acid** (SALKOWSKI), 1884, A., 1176.
derivatives of (SALKOWSKI), 1889, A., 1173.
- α -Hydroxyphenylacetic acid.** See Mandelic acid.
- Hydroxyphenylacetimidoether and its hydrochloride** (BEYER), 1884, A., 65; 1885, A., 983.
- Hydroxyphenylacetoneitrile**, acetyl-derivative of (MICHAEL and JEANPRÉTRE), 1892, A., 1088.
imidoethers of (PINNER), 1891, A., 62.
- Hydroxyphenylacridine** (HESS and BERNTHSEN), 1885, A., 801; (BESTHORN and CURTMAN), 1891, A., 1234.
- Hydroxyphenylacrylic acid.** See *p*-Coumaric acid.
- α -Hydroxyphenylacrylic acid** (PLÜCHL), 1884, A., 605.
- p*-Hydroxyphenylalanine** (ERLENMEYER and LIPP), 1883, A., 994.
- o*-Hydroxyphenylallylthiocarbamide** (V. CHELMICKI), 1891, A., 52.
- Hydroxyphenylamidoacetic acid and derivatives** (VATER), 1884, A., 1144.
- Hydroxyphenylbenzenylnaphthylene-diamine** (FISCHER), 1892, A., 1472.
- 6-Hydroxy-4-phenyl-2-benzyl-*m*-diazine and 6-hydroxy-2-phenyl-5-benzyl-4-methyl-*m*-diazine** (PINNER), 1889, A., 1008.
- γ -Hydroxyphenylbutyramide** (FITTIG and MORRIS), 1890, A., 890.
- Hydroxy- α -phenylbutyric acid** (JAYNE), 1883, A., 473.
- α -Hydroxy- γ -phenylbutyric acid**, γ -bromo- (BIEDERMANN), 1892, A., 471.
- α -Hydroxyphenylisobutyric acid**, β -bromo- (KÖRNER), 1888, A., 368; 1889, A., 372.
- Hydroxyphenylbutyrolactone** (FITTIG), 1888, A., 595; (FITTIG and OBERMÜLLER), 1892, A., 986.
- α -Hydroxy- γ -phenylbutyro- γ -lactone** (BIEDERMANN), 1892, A., 472.
- α -Hydroxy- γ -phenylbutyronitrile**, dibromo- (FISCHER and STEWART), 1892, A., 1447.
- Hydroxyphenylcarbamide** (TRAUBE), 1889, A., 394; (V. DER KALL), 1891, A., 1222.
- Hydroxyphenylcarbamides**, *o*- and *p*- (KALCKHOFF), 1883, A., 734, 735.
- o*-Hydroxy- α -phenylcinchonic acid** (DOEBNER), 1889, A., 410.
- α -Hydroxyphenylcrotonic acid** (PEINE), 1884, A., 1344; (TIEMANN), 1892, A., 471.
bromo- (FISCHER and STEWART), 1892, A., 1447.
- α -Hydroxyphenylcrotonitrile** (PEINE), 1884, A., 1344.
- 6-Hydroxy-2-phenyl-*m*-diazine-4-carboxylbenzamidine** (PINNER), 1890, A., 69.
- 6-Hydroxy-2-phenyl-*m*-diazine-4-carboxylic acid and amide** (PINNER), 1889, A., 1009.
- 6-Hydroxy-5-phenyl-2:4-dibenzyl-*m*-diazine** (WACHE), 1889, A., 684.
- 2'-Hydroxy-3'-phenyldihydroquinazoline** (PAAL and BODEWIG), 1891, A., 941.
- 6-Hydroxy-2-phenyl-4:5-dimethyl-*m*-diazine** (PINNER), 1889, A., 1008.
- o*-2-Hydroxyphenyl-4:5-dimethylglyoxaline** (WADSWORTH), 1890, T., 10.
- m*-4-Hydroxyphenyl-2:6-dimethylpyridine** (LEPETIT), 1887, A., 1053.
- 1-*o*-Hydroxyphenyl-2:5-dimethylsuccinic acid** (FITTIG and BROWN), 1890, A., 777.
- 1-*o*-Hydroxyphenyl-2:5-diphenylpyrrolone** (PAAL and BRAIKOFF), 1890, A., 264.
- Hydroxyphenylethenylamidine and its hydrochloride** (BEYER), 1884, A., 65.
- Hydroxyphenylethenylamidoxime and its derivatives** (GROSS), 1885, A., 898, 1218.
- β -Hydroxyphenylethyl methyl ketone**, *m*-chloro-*o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1128; 1891, A., 1099.
- β -Hydroxy- β -phenylethyl- α -isoamylmalonic acid** (PAAL and HOFFMANN), 1890, A., 1101.
- Hydroxyphenylethyltrichloramidoethane** (BOESSECK), 1888, A., 588.
- 6-Hydroxy-4-phenyl-2-ethyl-*m*-diazine** (PINNER), 1889, A., 1007.
- Hydroxy- β -phenyl- α -ethylpropionic acid** (PERKIN and STENHOUSE), 1891, T., 1009.

- Hydroxy-2-phenylethylpyridine** (*hydroxy- α -stilbazoline*) (BUTTER), 1890, A., 1439.
- Hydroxyphenylformamidine** (COMSTOCK and CLAPP), 1892, A., 708.
- o*-Hydroxyphenylglyoxylic acid** (v. BAeyer and FRITSCH), 1884, A., 1021.
- Hydroxyphenylhexoic acid** (ERDMANN), 1890, A., 377.
- Hydroxyphenylhydrindone** and its hydrazone (v. MILLER and ROHDE), 1892, A., 1221.
- Hydroxyphenylhydrocoumarin** (LIEBERMANN and HARTMANN), 1891, A., 1484.
and its isomerides (LIEBERMANN and HARTMANN), 1892, A., 849.
- 2'-Hydroxyphenylhydroquinoline.** See Phenylhydrocarbostyryl.
- 6-Hydroxy-4-phenyl-2-hydroxybenzyl-*m*-diazine** (PINNER), 1891, A., 63.
- 6-Hydroxy-4-phenyl-2-hydroxyisopropyl-*m*-diazine** (PINNER), 1890, A., 70.
- p*-Hydroxy-2'-phenyl-4-hydroxyquinoline** (WEIDEL and v. GEORGIEVICS), 1888, A., 967.
- Hydroxyphenylic anthranilate** (v. MEYER and BELLMANN), 1886, A., 358.
sulphide (TASSINARI), 1887, A., 807.
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and its compounds (HATTINGER), 1883, A., 988.
oxidation of the methyl ether of thio- (LEUCKART), 1890, A., 604.
- p*-Hydroxyphenylimidomethylene ethylenic disulphide** (MIOLATI), 1891, A., 895.
- 2'-*p*-Hydroxyphenylindazine** (PAAL), 1891, A., 724.
- o*-Hydroxyphenyllactic acid** (*salicyllactic acid*) (PLOCHL and WOLFRUM), 1885, A., 899.
- p*-Hydroxyphenyllactic acid** (ERLENMEYER and LIPP), 1883, A., 993.
- α -*m*-Hydroxyphenyl-*p*-methoxy-hydroquinoline and -quinoline** (v. MILLER and KINKELIN), 1887, A., 979, 978.
- Hydroxyphenylmethylamidotrichloroethane** and its derivatives (BOESSENCK), 1888, A., 587.
- Hydroxyphenylmethylisocrotonic acid** (FITTIG), 1890, A., 584; (FITTIG and BROWN), 1890, A., 778.
- 4-Hydroxy-2-phenyl-6-methyl-*m*-diazine**, derivatives of (PINNER), 1886, A., 46.
diamido- (PINNER), 1887, A., 1054.
- 4-Hydroxy-2-phenyl-6-methyl-*m*-diazine**, 5-bromo- (PINNER), 1887, A., 1053.
- 6-Hydroxy-2-phenyl-4-methyl-*m*-diazine** (PINNER), 1885, A., 751; 1889, A., 1008; 1891, A., 468.
- 6-Hydroxy-4-phenyl-2-methyl-*m*-diazine** (PINNER), 1889, A., 1007.
- 6-Hydroxy-2-phenyl-4-methyl-*m*-diazine-5-acetic acid** (PINNER), 1890, A., 69.
- 6-Hydroxy-2-phenyl-4-methyl-*m*-diazine-5-propionic acid** (PINNER), 1890, A., 70.
- 6-Hydroxy-2-phenyl-4-methyl-5-ethyl-*m*-diazine** (PINNER), 1889, A., 1008.
- 6-Hydroxy-4-phenyl-5-methyl-2-ethyl-*m*-diazine** (SCHWARZE), 1890, A., 1159.
- Hydroxyphenyl-*p*-methylic sulphide** (TASSINARI), 1887, A., 807.
- Hydroxy- β -phenyl- α -methylpropionic acid** (PERKIN and CALMAN), 1886, T., 159; (PERKIN and STENHOUSE), 1891, P., 43.
- Hydroxyphenylmethylpyridazone** (ACH), 1890, A., 71.
- β -Hydroxyphenylmethylpyrotartaric acid**, salts of (FITTIG and LIEBMAN), 1890, A., 776.
- 4'-Hydroxy-2'-phenyl-3-methylquinoline** (JUST), 1886, A., 812.
- Hydroxyphenylmethylquinoxaline** (HINSBERG), 1885, A., 909.
- β -Hydroxyphenyl- α -naphthylamine**, *$\alpha\beta$ -dichloro-* (ZINCKE and KEGEL), 1889, A., 268.
- 6-Hydroxy-4-phenyl-2- β -naphthyl-*m*-diazine** (PINNER), 1892, A., 1009.
- p*-Hydroxyphenyl-*m*-nitrophenylthiocarbamide** (STEUEDEMAN), 1884, A., 307.
- Hydroxyphenylphthalamic acid** (PIUTTI), 1886, A., 1027.
- p*-Hydroxyphenylphthalamide** (PIUTTI), 1886, A., 1026.
- Hydroxyphenylpivalic acid.** See β -Hydroxyphenylvaleric acid.
- β -Hydroxyphenylpropaldehyde** (*phenyl- β -lactic aldehyde*), *m*-chloro-*o*-nitro- (EICHENGRÜN and EINHORN), 1891, A., 1100.
o-nitro- (v. BAeyer and DREWSSEN), 1884, A., 58.
m-nitro- (GÖHRING), 1885, A., 792.
p-nitro-, compound of, with aldehyde, (GÖHRING), 1885, A., 527.
- β -Hydroxyphenylpropionamide**, *m*-chloro-*o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1100.

- p*-Hydroxy- α -phenylpropionic acid** (*phloretic acid*), artificial formation of (TRINIUS), 1885, A., 529.
- Hydroxy- β -phenylpropionic acids**, *o*-, *m*- and *p*-. See Hydrocoumaric acids.
- α -Hydroxyphenylpropionic acid**. See Phenyl- α -lactic acid.
- β -Hydroxyphenylpropionic acid** (*phenyl- β -lactic acid*), formation of, from ethylic benzoylacetate (PERKIN), 1885, T., 254.
- bromo-** (ERLENMEYER), 1883, A., 196; 1891, A., 1482.
- m*-chloro-*o*-nitro-** (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1099.
- α -iodo-** (ERLENMEYER and ROSENHEK), 1887, A., 45.
- o*-nitro-** (v. BAEYER and DREWSSEN), 1884, A., 58; (EINHORN), 1884, A., 66.
- alcohol of** (CALM), 1883, A., 341.
- β -lactone of** (EINHORN), 1884, A., 65.
- m*-nitro-, lactone of** (PRAUSNITZ), 1884, A., 1175.
- p*-nitro- and its ethyl and methyl derivatives** (BASLER), 1884, A., 604.
- β -lactone of** (BASLER), 1884, A., 604.
- o*-, *m*- and *p*-nitro-, etherification of** (EINHORN and PRAUSNITZ), 1884, A., 1351.
- β -Hydroxyphenylpropionanilide** (*phenyl- β -lactanilide*), *p*-nitro- (BASLER), 1884, A., 1173.
- β -Hydroxyphenylpropyl ketone**, *m*-chloro-*o*-nitro- (EICHENGRÜN and EINHORN), 1891, A., 1098.
- β -Hydroxyphenylpropyl methyl ketone and its derivatives** (v. BAEYER and DREWSSEN), 1883, A., 341; (v. BAEYER and BECKER), 1883, A., 1120; (EICHENGRÜN and EINHORN), 1890, A., 1128; 1891, A., 1099.
- Hydroxyphenylpyrazoline**. See Phenylpyrazolone.
- 2-Hydroxy-phenyl- γ -pyridone**, 3:5-dichloro-, and its carboxylic acid (ZINCKE), 1890, A., 964; (ZINCKE and FUCHS), 1892, A., 449, 448.
- Hydroxyphenylpyrotartaric acid** (*phenyltartaric acid*), *m*- and *p*-nitro-, and barium salts of (SALOMONSON), 1888, A., 480.
- 2'-*o*-Hydroxyphenylquinoline** (*phenolquinoline*) (DOEBNER), 1889, A., 410.
- 2'-*m*-Hydroxyphenylquinoline** (*phenolquinoline*), and its salts (v. MÜLLER and KINKELIN), 1885, A., 1145.
- 2'-*p*-Hydroxyphenylquinoline** (*phenolquinoline*) (WEIDEL), 1887, A., 847.
- 3-Hydroxy-2'-phenylquinoline**, *p*-amido- (WEIDEL and v. GEORGIEVICS), 1888, A., 967.
- 4'-Hydroxy-2'-phenylquinoline** (JUST), 1886, A., 811; (KNORR), 1888, A., 1113.
- synthesis of** (CONRAD and LIMPACH), 1888, A., 505.
- 4'-Hydroxyphenylquinolines**, α - and β - (KOENIGS and MAT), 1887, A., 599.
- 4'-Hydroxy-2'-phenylquinoline-3'-carboxylic acid**, and its ethyl salt (JUST), 1886, A., 161, 811.
- α -Hydroxy- α - and - β -phenylsuccinic acids**. See α - and β -Phenylmalic acids.
- Hydroxyphenylsulphonic acid**. See Phenolsulphonic acid.
- Hydroxy-2'-phenyltetrahydroquinoline** (WEIDEL), 1887, A., 848.
- μ -Hydroxy- α -phenylthiazole** (ARAPIDES), 1889, A., 413.
- chloro-** (SCHATZMANN), 1891, A., 715.
- Hydroxyphenylthiocarbamide** (FISCHER), 1889, A., 1164; (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1126; 1891, A., 558; (v. DER KALL), 1891, A., 1222.
- p*-Hydroxyphenylthiocarbamide** (KALCKHOFF), 1883, A., 735.
- 3-Hydroxyphenyltoluenesulphonic acid**, 4:4'-diamido- (WEINBERG), 1888, A., 285.
- m*-Hydroxyphenyltolylamine** (ZEGA and BUCH), 1886, A., 873.
- Hydroxyphenyl-*o*-tolylamines**, *m*- and *p*- (PHILIP), 1886, A., 942, 941.
- m*-Hydroxyphenyl-*p*-tolylamine**, nitroso- (HATSCHEK and ZEGA), 1886, A., 455.
- Hydroxyphenyl-*p*-tolylamines**, *m*- and *p*-, and their derivatives (HATSCHEK and ZEGA), 1886, A., 455.
- 6-Hydroxy-4-phenyl-2-*p*-tolyl-*m*-di-azine** (PINNER), 1891, A., 470.
- Hydroxyphenyltolylethanes**, *o*- and *m*- (KOENIGS and CARL), 1892, A., 446.
- Hydroxyphenyltriphtalamic acid** (FITTIG), 1886, A., 1027.
- β -Hydroxyphenylvaleric acid** (*hydroxyphenylpiralic acid*) (FITTIG and JAYNE), 1883, A., 471.
- and its derivatives** (OTT), 1885, A., 663.
- γ -Hydroxyphenylvaleric acid** (FITTIG and STERN), 1892, A., 988.
- γ -Hydroxyphenylisovaleric acid**, salts of (FITTIG and LIEBMANN), 1890, A., 776.
- Hydroxyphenylvalerolactone** (FITTIG and MAYER), 1892, A., 986.

- Hydroxyphosphinic acids** (FOSSEK), 1885, A., 504; 1886, A., 529.
- Hydroxyphosphinous acids** (VILLE), 1890, A., 618.
- Hydroxyisophthalaldehydes**, α - and β - (VOSWINCKEL), 1883, A., 190.
- Hydroxyphthalanilide** (PIUTTI), 1886, A., 1026.
- 1:2:3-Hydroxyphthalic acid** (JACOBSEN), 1883, A., 1124; (MILLER), 1884, A., 1177; (STOKES), 1885, A., 540. *dinitro-* (*juglonic acid*) (BERNTSEN and SEMPER), 1885, A., 548.
- 1:3:4-Hydroxyphthalic acid** (GRAEBE), 1885, A., 902; (GRAEBE and RÉE), 1886, T., 522; P., 211.
- Hydroxyisophthalic acid** (VOSWINCKEL), 1883, A., 190.
- β -Hydroxyphthalide** (GRAEBE and RÉE), 1886, T., 525.
- β -Hydroxyphthalimide** (GRAEBE and RÉE), 1886, T., 524.
- β -Hydroxy- β -phthalimidoethyl sulphide** (GABRIEL), 1892, A., 130.
- p*-Hydroxypiazthiole** (AUTENRIETH and HINSBERG), 1892, A., 734.
- α -Hydroxypicolinic acid** (*α -hydroxypyridinecarboxylic acid*), and its salts (OST), 1883, A., 795. *dichloro-* (OST), 1883, A., 795.
- β -Hydroxypicolinic acid** (*β -hydroxypyridinecarboxylic acid*) (OST), 1883, A., 795; 1885, A., 49. *chloro-* [β -acid] (OST), 1883, A., 795. *chloro-* [γ -acid] (SEYFFERTH), 1887, A., 158.
- γ -Hydroxypicolinic acid** and *chloro-* (BELLMANN), 1884, A., 840.
- Hydroxypimelic acid** (SCHLEICHER), 1892, A., 428.
- 6-Hydroxy-2-pipecoline** (BUNZEL), 1889, A., 904.
- Hydroxypiperhydronic acid** (WEINSTEIN), 1885, A., 664.
- Hydroxypiperic acids**, α - and β -, oxidation of (REGEL), 1887, A., 488.
- 2-Hydroxypiperidine** (WOLFFENSTEIN), 1892, A., 1485.
- Hydroxypiperohydroxylactone** (REGEL), 1887, A., 488.
- β -Hydroxypiperonylethyl methyl ketone** (*piperonyllactyl methyl ketone*), and *bromo-* (OELKER), 1891, A., 1476.
- Hydroxypipitzahoic acid**. See *Hydroxyperezone*.
- Hydroxypipamidine salts** (PINNER), 1891, A., 63.
- α -Hydroxypropenylamidoxime**, β -trichloro- (RICHTER), 1892, A., 321.
- Hydroxypropenylbenzoic acid** (*p -propenylsalicylic acid*) (HEYMANN and KOENIGS), 1887, A., 241.
- α -Hydroxypropenylethenylazoxime**, β -trichloro- (RICHTER), 1892, A., 321.
- α -Hydroxypropionic acid**. See *Lactic acid*.
- β -Hydroxypropionic acid**. See *Hydracrylic acid*.
- Hydroxypropionitrile**, imidoethers of (PINNER), 1891, A., 62.
- ω -Hydroxypropyl phenyl ketone** (PERKIN), 1885, T., 844.
- β -Hydroxypropylacridine**, ω -trichloro- (*methylacridinechloral*) (BERNTSEN and MÜHLERT), 1887, A., 849.
- α -Hydroxypropylamine** (*amidoisopropyl alcohol*) (LIEBERMANN and PAAL), 1883, A., 909.
- β -Hydroxypropylamine**, *trichloro-* (FAUCONNIER), 1888, A., 1265.
- γ -Hydroxypropylamine** (GABRIEL and WEINER), 1888, A., 1293.
- Hydroxypropylamylamine** (LIEBERMANN and PAAL), 1883, A., 910.
- β -Hydroxypropylbenzamide** (HIRSCH), 1890, A., 860.
- 4-Hydroxyisopropylbenzoic acid**, 2-amido- (WIDMAN), 1886, A., 466. action of nitrous acid and of ethylic chloroformate on (WIDMAN), 1884, A., 1022.
- 2:5-dibromo-** (FILETI and BONISCONTRO), 1892, A., 604.
- 2-nitro-** (WIDMAN), 1886, A., 466.
- 3-nitro-**, and its derivatives (WIDMAN), 1883, A., 330; 1884, A., 316.
- exo*-Hydroxyisopropylbenzoic acid**, 3-amido- (WIDMAN), 1884, A., 317. action of acetic anhydride on (WIDMAN), 1884, A., 302.
- Hydroxypropylcarboxylphenylurethane** (WIDMAN), 1884, A., 1023.
- Hydroxyisopropyl diphenylene ketone-carboxylic acid** (BAMBERGER and HOOKER), 1885, A., 1070.
- Hydroxypropylene piperidine** (*α -lupetidylalkine*) (LADENBURG), 1891, A., 1119.
- Hydroxypropylhydroxybenzoic acid** (WIDMAN), 1884, A., 1022.
- α -Hydroxy- β -propylidenebutyramide** (JOHANNY), 1891, A., 38.
- Hydroxypropylmalonic acid**, salts of (HJELT), 1883, A., 456.
- Hydroxypropylmethylaniline** (*phenyl-methylpropylalkine*) (LAUN), 1884, A., 1011.

- Hydroxypropylpiperidine** (*piperpropylalkine*), and its derivatives (LAUN), 1884, A., 1054; (ENGLER and BAUER), 1891, A., 1505.
- α -Hydroxypropylpiperidine.** See Conhydrin.
- β -Hydroxypropylpiperidine** (*α -pipercolylmethylalkine*) (LADENBURG), 1890, A., 68.
- Hydroxypropylphosphinic acid** (FOSSEK), 1886, A., 530.
- Hydroxypropylphthalamic acid** (GABRIEL and LAUER), 1890, A., 472.
- γ -Hydroxypropylphthalimide** (GABRIEL and LAUER), 1890, A., 472; (LAUER), 1890, A., 1089.
- Hydroxypropylphthalimide**, nitro- (NEUMANN), 1890, A., 890.
- Hydroxypropylpyridine** [b.p. 213°] (ENGLER and BAUER), 1891, A., 1505.
- Hydroxypropylpyridine** (*α -lutidylalkine*) (ALEXANDER), 1890, A., 1447; (LADENBURG), 1891, A., 1119.
- β -Hydroxypropylpyridine** (*α -picolylmethylalkine*) (LADENBURG), 1890, A., 68.
- α -Hydroxypropylpyridine**, ω -trichloro- (EINHORN and LIEBRECHT), 1887, A., 845.
- α -Hydroxypropylquinoline**, trichloro- (EINHORN), 1886, A., 721.
- 2'-Hydroxy-2-isopropylquinoline** (WIDMAN), 1886, A., 465.
- Hydroxypropylsuccinic acid**, lactone of (HJELT), 1883, A., 656, 971.
- Hydroxy-*p*-isopropylsalicylic acid** (HEYMANN and KOENIGS), 1887, A., 241.
- 2-Hydroxypyridine** (*α -pyridone*) (KOENIGS and KÖRNER), 1884, A., 85; (KOENIGS and GEIGY), 1884, A., 1195; (FEER and KOENIGS), 1886, A., 1044; (V. PECHMANN and BALTZER), 1892, A., 208.
- di*bromo-** (KOENIGS and GEIGY), 1884, A., 1195.
- di*chloro-** (KOENIGS and GEIGY), 1884, A., 1369.
- 3:5-*di*odo-** (PFEIFFER), 1887, A., 845.
- 3-Hydroxypyridine** (FISCHER and RENOUF), 1884, A., 1050; (KOENIGS and GEIGY), 1884, A., 1369.
- from pyridinesulphonic acid, derivatives of (FISCHER and RENOUF), 1884, A., 1370.
- di*bromo-** and its salts (FISCHER), 1884, A., 1370.
- 4-Hydroxypyridine** (*chelamide*) (LERCHE), 1885, A., 46; (HAFFINGER and LIEBEN), 1885, A., 811, 966.
- 4-Hydroxypyridine** (*chelamide*) from β -hydroxypicolinic acid (OST), 1885, A., 50.
- and its *di*bromo-derivative (LIEBEN and HAFFINGER), 1883, A., 871.
- 6-Hydroxypyridine**, 2:3:5-trichloro-4-amido- (STOKES and V. PECHMANN), 1887, A., 156.
- Hydroxypyridine**, amido- [m.p. 214°], and its derivatives (KRIPPENDORFF), 1885, A., 1243.
- Hydroxypyridine-bases**, synthesis of (LADENBURG), 1890, A., 67; 1891, A., 1092.
- α -Hydroxypyridinecarboxylic acid** (*α -hydroxypicolinic acid*) and its salts (OST), 1883, A., 795.
- di*chloro-** (OST), 1883, A., 795.
- β -Hydroxypyridinecarboxylic acid** (*β -hydroxypicolinic acid*) (OST), 1883, A., 795; 1885, A., 49.
- chloro-*** (OST), 1883, A., 795.
- 2-Hydroxypyridine-3-carboxylic acid** (*2-hydroxypicolinic acid*) (WEIDEL and STRACHE), 1886, A., 951.
- 6-Hydroxypyridine-3-carboxylic acid** (*6-hydroxypicolinic acid*), and its derivatives (KOENIGS and GEIGY), 1884, A., 1195; (V. PECHMANN and WELSH), 1885, T., 150; A., 174; (V. PECHMANN), 1885, A., 176.
- preparation of, from hydroxyquinolinic acid (KOENIGS and GEIGY), 1884, A., 945.
- 2-Hydroxypyridine-3:4-dicarboxylic acid** (*α -hydroxyquinolonic acid*) (WEIDEL and STRACHE), 1886, A., 951.
- 4-Hydroxypyridine-2:6-dicarboxylic acid.** See Ammonchelidonic acid.
- 6-Hydroxypyridine-2:3-dicarboxylic acid** (*hydroxyquinolinic acid*), and its salts (KOENIGS and KÖRNER), 1884, A., 85; (KOENIGS and GEIGY), 1884, A., 1195; (FEER and KOENIGS), 1885, A., 1236.
- 3-Hydroxypyridyl-2-butyric acid.** See Morrhic acid.
- Hydroxypyrotartaric acid** (*itamic acid*) and its salts (BEER), 1883, A., 457.
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- Hydroxyquinaldine.** See Hydroxy-2'-methylquinoline.
- Hydroxyquinhydrone** (BARTH and SCHEIDT), 1885, A., 520.

- Hydroxyquinol**, the third isomeric trihydroxybenzene (BARTH and SCHREDER), 1883, A., 987; 1885, A., 520.
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- Hydroxyquinoline** (*kynurin*) (SKRAUP), 1890, A., 174.
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- Hydroxyquinoline, 3'-amido-** [m.p. 109°–110°], and the action of its diazo-salts on phenols and tertiary bases (RIEMERSCHMIED), 1883, A., 1148.
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- 1-Hydroxyquinoline** (SKRAUP), 1883, A., 92; (HERZFELD), 1884, A., 1199; (FISCHER and RENOUF), 1884, A., 1370; (KOHN), 1886, T., 500.
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- 1-Hydroxyquinoline, bromo-** [m.p. 119°] (SCHMITT and ENGELMANN), 1888, A., 67.
 4-bromo- [m.p. 124°] (CLAUS and HOWITZ), 1892, A., 354.
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- 2-Hydroxyquinoline** (FISCHER), 1883, A., 91; (SKRAUP), 1883, A., 95; (CLAUS), 1888, A., 729.
- 2-Hydroxyquinoline derivatives** (FISCHER), 1883, A., 91; (SKRAUP), 1883, A., 95.
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- 2'-Hydroxyquinoline.** See Carbostyryl.
- 3-Hydroxyquinoline** (SKRAUP), 1883, A., 93.
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- 3'-Hydroxyquinoline and its derivatives** (RIEMERSCHMIED), 1883, A., 1147.
- 4-Hydroxyquinoline** (CLAUS), 1888, A., 729.
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- Hydroxyisoquinoline, mono-** and *di*-chloro- (RÜGHEIMER), 1886, A., 702.
- Hydroxyisoquinolines and their derivatives** (CLAUS, HOWITZ, MASSAN and RAPS), 1892, A., 877.
- Hydroxyquinolines, preparation of** (ANON.), 1884, A., 945.
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- 1-Hydroxyquinolinecarbothionyllic acid** (LIPPMANN and FLEISSNER), 1888, A., 1092.
- Hydroxyquinolinecarboxylic acid** (*kynurenic acid*; *kynarenic acid*), oxidation of (KRETSCHY), 1883, A., 674.

- 1-Hydroxyquinolinecarboxylic acid** [m.p. 250°] (LIPPMANN and FLEISSNER), 1887, A., 63, 1119; 1888, A., 1092.
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- 1-Hydroxyquinolinecarboxylic acid** [m.p. 235°] (SCHMITT and ENGELMANN), 1887, A., 738; 1888, A., 66.
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- 2'-Hydroxyquinoline-3'-carboxylic acid** (*carboxygriseocarboxylic acid*) (FRIEDLÄNDER and GÖHRING), 1884, A., 1020.
- 2-Hydroxyquinoline-4'(?)-carboxylic acid** (*xanthoquinic acid*) (SKRAUP), 1884, A., 86.
- 2'-Hydroxyquinoline-4'-carboxylic acid** (*hydroxyquinonic acid*) (KOENIGS and KÖRNER), 1884, A., 84.
- 3-Hydroxyquinolinecarboxylic acid** (LIPPMANN and FLEISSNER), 1887, A., 1120; (SCHMITT and ALTSCHUL), 1888, A., 67.
- 1-Hydroxyquinolinedisulphonic acid** (LIPPMANN and FLEISSNER), 1890, A., 268; (CLAUS and POSSELT), 1890, A., 523.
- 3-Hydroxyquinoline-1'-methylbetaine** (CLAUS and HOWITZ), 1891, A., 1252.
- 3-Hydroxyquinoline-1:4-quinone**, 2-chloro-, and its anilide (ZINCKE), 1891, A., 1251.
- 1-Hydroxyquinolinesulphonic acid** (LIPPMANN and FLEISSNER), 1890, A., 268.
- 1-Hydroxyquinoline-4-sulphonic acid** (CLAUS and POSSELT), 1890, A., 522.
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- 2'-Hydroxyquinolinesulphonic acid** (*carboxygriseosulphonic acid*) (LA COSTE and VALEUR), 1886, A., 629; 1887, A., 379.
- 3-Hydroxyquinolinesulphonic acid** (CLAUS and POSSELT), 1890, A., 523.
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- 3-Hydroxyquinoxaline** (AUTENRIETH and HINSBERG), 1892, A., 732.
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- Hydroxystyrylhydantoin bromide** (PINNER and SPILKER), 1889, A., 706.
- Hydroxy-2'-styrylpyridine** (*hydroxy- α -stilbazole*) (BUTTER), 1890, A., 1438.
- Hydroxysuberic acid** and its salts (HELL and REMPEL), 1885, A., 756; (HEMPEL), 1885, A., 757.
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- p*-Hydroxy-*m*-sulphobenzoic acid** and its salts (KLEPL), 1884, A., 446.
- 1-Hydroxy-4-sulpho- β -naphthoic acid** (KÖNIG), 1889, A., 719; 1890, A., 636.

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- 1-Hydroxytetrahydroquinolinecarboxylic acid** (LIPPMANN and FLEISSNER), 1887, A., 1119.
- Hydroxytetrahydroterephthalic acid** (V. BAEYER and TUTEIN), 1889, A., 1180.
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- o*-Hydroxythiocarbanilide** (KALCKHOFF), 1883, A., 1110.
- p*-Hydroxythiocarbanilide** (KALCKHOFF), 1883, A., 735.
- Hydroxythionaphthene** (BIEDERMANN), 1886, A., 788.
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- Hydroxythiotoluene** (TRUHLAR), 1887, A., 473.
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- 2-Hydroxy-*m*-tolenylamidoxime** (*o-homosalicylamidoxime*) (PASCHEN), 1892, A., 320.
- 4-Hydroxy-*m*-tolenylamidoxime** (*p-homosalicylamidoxime*) (GOLDBECK), 1892, A., 319.
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γ -**Iodobutyric acid** (HENRY), 1886, A., 440.

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- 3:5-diIodo-2-hydroxypyridine** (PFEIFFER), 1887, A., 845.
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- 3:5-di-Iodoquinone** (SEIFERT), 1884, A., 431.
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- β -Iodotrimethylethylammonium salts** (SCHMIDT), 1892, A., 808.
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- γ -Iodotrimethylpropylammonium iodide** (PARTHEIL), 1890, A., 357.
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Methanesulphonic chloride, trichloro- (MCGOWAN), 1885, A., 367.

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Methanetriquinol (NÖLTING and SCHWARTZ), 1891, A., 1106; (RHOUSSOPOULOS), 1891, A., 1261.

hydriodide (RHOUSSOPOULOS), 1883, A., 609.

Methanetrissulphonic acid, action of nitric acid on (FRANCHIMONT and KLOBBE), 1891, A., 426.

Methenylamidine (*formamidine*) hydrochloride (PINNER), 1883, A., 731.

picrate (DIECKMANN), 1892, A., 705.

Methenylamidinophenyl-m-carboxylic acid (ZEHRA), 1891, A., 304.

Methenylamido- α -naphthyl mercaptan (V. HOFMANN), 1887, A., 839.

Methenylamidoximeacethydroxamic acid (MODEEN), 1892, A., 139.

Methenylamidoxylyl mercaptan (GUDEMAN), 1888, A., 1282.

Methenylanilidoxime (MÜLLER), 1890, A., 44.

Methenylisotolylenediamine and its bromo-derivative (HUBNER and SCHÜPPHAUS), 1884, A., 1143.

Methose (LOEW), 1889, A., 583.

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Methoxide, potassium, heat of formation of (DE FORCRAND), 1887, A., 204.

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elimination of carbonic anhydride by aid of (MAI), 1889, A., 1126.

oxidation of, by atmospheric oxygen (V. HEMMELMAYR), 1891, A., 1332.

o-Methoxyacetophenone (TAHARA), 1892, A., 845.

Methoxyacetophenonecarboxylic acid (ZINCKE and LATTEN), 1892, A., 1231.

- o*-Methoxybenzaldehyde** (*o*-methoxy-salicylaldehyde) (VOSWINCKEL), 1883, A., 190.
- nitro- [m.p. 102°] (V. MILLER and KINKELIN), 1889, A., 989.
- [m.p. 90] and its derivatives (VOSWINCKEL), 1883, A., 190; (SCHNELL), 1884, A., 1164; 1887, A., 140.
- trithio*- (BAUMANN and FROMM), 1891, A., 1051.
- m*-Methoxybenzaldehyde** (TIEMANN and LUDWIG), 1883, A., 189, 586.
- α - and β -nitro- (ULRICH), 1886, A., 60.
- p*-nitro- (ULRICH), 1886, A., 60; (LANDSBERG), 1887, A., 483.
- preparation of (TIEMANN), 1891, A., 703.
- m*-Methoxybenzaldehydes**, nitro-, the four isomeric (RIECHE), 1889, A., 1169.
- p*-Methoxybenzaldehyde**, *m*-nitro- (EINHORN and GRABFIELD), 1888, A., 478.
- trithio*- (BAUMANN and FROMM), 1891, A., 1050.
- See also Anisaldehyde.
- p*-Methoxybenzaldoxime** (MILLER), 1889, A., 254.
- p*-Methoxybenzamide**. See Anisamide.
- Methoxybenzene**, 3:4-nitramido- (SCHEIDEL), 1886, A., 1046.
- See also Anisoil.
- p*-Methoxybenzenylacetylamidoxime** (MILLER), 1889, A., 254.
- o*-Methoxybenzenylamidoxime** (MILLER), 1889, A., 255; 1890, A., 146.
- p*-Methoxybenzenylamidoxime** (*anisenylamidoxime*) (MILLER), 1889, A., 254; 1890, A., 144; (HOCHHEIM), 1890, A., 1265.
- ethyl ether (MILLER), 1889, A., 254.
- o*-Methoxybenzenylazoximebenzenyl** (MILLER), 1889, A., 254; 1890, A., 146.
- p*-Methoxybenzenylazoximebenzenyl** (MILLER), 1889, A., 254.
- p*-Methoxybenzenylazoxime-ethenyl** (MILLER), 1889, A., 254.
- p*-Methoxybenzenylazoximepropenyl- ω -carboxylic acid** (MILLER), 1889, A., 255.
- p*-Methoxybenzenyl- β thylideneimidoxime** and **-imidoximecarbonyl** (MILLER), 1889, A., 254.
- Methoxybenzhydrylamine**. See Methoxydiphenylcarbonylamine.
- o*-Methoxybenzoic acid**, *di*bromo- (PERATONER), 1887, A., 487.
- m*-Methoxybenzoic acid**, *o*- and *m*-nitro- (RIECHE), 1889, A., 1169, 1170.
- p* Methoxybenzoic acid**. See Anisic acid.
- Methoxybenzonitriles**. *o*- and *p*-*taniso*-nitriles (MILLER), 1889, A., 255, 254; 1890, A., 146; (HOCHHEIM), 1890, A., 1265; (GARELLI), 1891, A., 712.
- 6-Methoxybenzo-1-nitrile**-, 2-nitro- (LOBRY DE BRUYN), 1885, A., 657.
- Methoxybenzophenone** and its ketoximes (HANTZSCH), 1891, A., 445.
- p*-Methoxybenzophenone** chloride (HANTZSCH and KRAFT), 1892, A., 339.
- hydrazones of (HANTZSCH and KRAFT), 1892, A., 340; (AUWERS and MEYER), 1892, A., 598.
- p*-Methoxybenzophenone-*p*-amidobenzoic acid** (HANTZSCH and KRAFT), 1892, A., 340.
- p*-Methoxybenzophenone- β -naphthylamine** and **-*p*-toluidine** (HANTZSCH and KRAFT), 1892, A., 339.
- o*-Methoxybenzoylacetic acid** (TAHARA), 1892, A., 844.
- Methoxybenzylacetamide**. See *o*-Anisylacetamide.
- p*-Methoxybenzyl cyanide** (SALKOWSKI), 1889, A., 1173.
- p*-Methoxybenzylideneamidodimethylaniline** (NUTH), 1885, A., 784.
- o*-Methoxybenzylideneamidophenols** (HAEGELE), 1892, A., 1451.
- o*-Methoxybenzylidenecamphor** (*methylsalicylalcamphor*) (HALLER), 1891, A., 1498.
- o*-Methoxybenzylidene-dimethyl-*p*-phenylenediamine** and **- β -naphthylamine** (STEINHART), 1888, A., 52.
- o*-Methoxybenzylidenemalonic acid** (STUART), 1887, P., 118; 1888, T., 142.
- o*-Methoxybenzylidene chloride** (STUART), 1888, T., 404; P., 25.
- p*-Methoxybenzylidene ethylenic disulphide** (FASBENDER), 1888, A., 805.
- o*-Methoxybenzyl- β -naphthylamine** and **-*p*-toluidine** (EMMERICH), 1888, A., 51, 50.
- Methoxycarballylic acid** (SCHATZKI), 1885, A., 512.
- Methoxycarbostyryl** (*2'-hydroxy-3-methoxyquinoline*) (EICHENGRÜN and EINHORN), 1891, A., 1101.
- Methoxycinnamaldehyde** (*methylcoumaraldehyde*), nitro- (V. MILLER and KINKELIN), 1889, A., 990.
- Methoxycinnamic acid** (*methylcoumaric acid*), *o*-nitro- (V. MILLER and KINKELIN), 1889, A., 989.
- m*-Methoxycinnamic acid** (TIEMANN and LUDWIG), 1883, A., 189.
- o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1101.

- o*-Methoxycinnamic acid**, derivatives of (SCHNELL), 1884, A., 1165; 1887, A., 140.
m-amido- and *m*-nitro- (SCHNELL), 1884, A., 1165; 1887, A., 140.
***p*-Methoxycinnamic acid** (VALENTINI), 1885, A., 264; (MAGNANIMI), 1886, A., 467.
dibromide and its derivatives (EIGEL), 1887, A., 1110.
m-nitro- (EINHORN and GRAEFELD), 1888, A., 478.
***p*-Methoxy-coumarilic acid** and -coumarone (WILL and BECK), 1886, A., 881.
Methoxycresol (LIMPACH), 1892, A., 447.
6-Methoxy- ψ -cumene, 2:5-*dibromo*- and *m*-nitro- (AUWERS), 1886, A., 144.
Methoxycymene and its nitro-derivative (JESURUN), 1886, A., 696.
Methoxydeoxybenzoin (NEY), 1888, A., 1197.
Methoxydiallylacetic acid and its ethylic salt (SCHATZKI), 1885, A., 512; (BARATAEFF), 1887, A., 359.
***p*-Methoxydiazobenzenesulphonic acid**, salts of (ALTSCHUL), 1892, A., 1081.
4-Methoxy-2:6-dimethylpyridine (*methoxyglutidine*) (CONRAD and ECKHARDT), 1889, A., 520.
3-Methoxy-2':4'-dimethylquinoline (CONRAD and LIMPACH), 1888, A., 853.
***p*-Methoxydiphenylcarbinylamine** (*p-methoxyphenylglycylamine*) (HANTZSCH and KRAFT), 1892, A., 338.
***o*-Methoxy-1:3-diphenylpyrazolone** (TAHARA), 1892, A., 844.
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Methoxyethane, *tetrachloro*- (MAGNANIMI), 1887, A., 28.
3-Methoxy-1-ethoxyallylbenzene (*propenyl ethyl ether*), *tribromide* (Wey), 1890, A., 638.
Methoxyethylbenzoic acid, *o*-chloro-nitro- (ZINCKE and LAFFEN), 1892, A., 1231.
Methoxyhydrocotarnine methiodide (ROSER), 1890, A., 531.
***p*-Methoxyhydrocoumarilic acid** (WILL and BECK), 1886, A., 881.
***p*-Methoxyjulolidine** (PINKUS), 1892, A., 1492.
Methoxyl, estimation of (ZEISEL), 1886, A., 493, 1079; (BENEDIKT and GRÜSSNER), 1890, A., 299.
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***o*-Methoxymandelic acid** (VOSWINCKEL), 1883, A., 190.
Methoxymethyl butyl ketone (JAMES), 1885, P., 115; 1886, T., 55.
Methoxy-*m*-methylbenzanilides, *o*- and *p*- (LEUCKART), 1890, A., 760.
 γ -Methoxymethyl- ψ -carbostyryl (FRIEDLÄNDER and MÜLLER), 1887, A., 977.
Methoxymethylethylacetone (JAMES), 1885, P., 115; T., 55.
Methoxy- β -methylhydrocoumaric anhydride (V. PECHMANN and COHEN), 1884, A., 1332.
6-Methoxymethyl-*p*-phenylenediamine (BEST), 1890, A., 608.
Methoxymethylphthalic acid, *dibromo*- (WILL and LEYMAN), 1886, A., 254.
Methoxymethylpropyl-benzanilide and -benzoic acid (LEUCKART), 1890, A., 760.
Methoxymethylquinolines (HERZFELD), 1884, A., 1199.
Methoxy-2'-methylquinoline (CONRAD and LIMPACH), 1887, A., 680.
4'-Methoxy-2'-methylquinoline methiodide (CONRAD and ECKHARDT), 1889, A., 520.
3-Methoxy-2'-methylquinoline, 4'-chloro- (CONRAD and LIMPACH), 1888, A., 853.
Methoxy-4'-methylquinoline (*methoxylepidine*) (KNORR), 1887, A., 159.
3-Methoxy-4'-methylquinoline (KÖENIGS), 1890, A., 1433.
1-Methoxy-2'-methyltetrahydroquinoline (DOEBNER and V. MILLER), 1884, A., 1374.
1-Methoxy-1'-methyltrihydroquinoline (KÖHN), 1886, T., 501; P., 210.
methiodide and *hydroxide* (KÖHN), 1886, T., 503; P., 210.
1-Methoxynaphthalene, 2:4-bromo-nitro- (MELDOLA), 1885, T., 502.
Methoxynaphthalenes, α - and β - (STAEDEL), 1883, A., 585.
 β -Methoxynaphthalenesulphonic acids (PERCIVAL), 1889, P., 73.
Methoxynaphthaphenazine (KEHRMANN and MESSINGER), 1891, A., 1213.
Methoxynaphthoic acids, anilides of (LEUCKART and SCHMIDT), 1885, A., 1224.
***p*-Methoxynicotinic acid** (V. PECHMANN and WELSH), 1885, T., 154; P., 6; A., 175.

- p*-Methoxynicotinic acid, constitution of (v. PECHMANN), 1885, A., 558.
- Methoxy*iso*-oxazoledicarboxylic acid (v. PECHMANN), 1891, A., 739.
- p*-Methoxyphenoxycinnamic acid (VALENTINI), 1885, A., 261.
- p*-Methoxyphenylacetamide- and -acetoneitrile (SALKOWSKI), 1889, A., 1173.
- p*-Methoxyphenylacetic acid (SALKOWSKI), 1884, A., 1176.
- p*-bromo- (SALKOWSKI), 1889, A., 1174.
- p*-Methoxyphenylacryl methyl ketone (EINHORN and GRABFIELD), 1888, A., 477.
- p*-Methoxyphenylacrylic acid (EINHORN and GRABFIELD), 1888, A., 477.
- m*-Methoxyphenyl- β -bromopropionic acid, *o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127.
- o*-Methoxy- α -phenyleinchonic acid (DOEBNER), 1889, A., 411.
- 1-*p*-Methoxyphenyl-2:3-dimethylpyrazolone (ALTSCHUL), 1892, A., 1082.
- p*-Methoxyphenylethylene, *m*-nitro- (EINHORN and GRABFIELD), 1888, A., 477.
- p*-Methoxyphenylglyoxylic acid (GARELLI), 1891, A., 711.
- p*-Methoxyphenylhydrazine (ALTSCHUL), 1892, A., 1082.
- p*-Methoxyphenylhydrazinesulphonic acid, salts of (ALTSCHUL), 1892, A., 1081.
- 3-Methoxy-2'-phenylhydroquinoline, 2-amido- (v. MILLER and KINKELIN), 1887, A., 978.
- m*-Methoxyphenyllactamide, *o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1128.
- m*-Methoxyphenyllactic acid, *o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1100.
- 4-Methoxy-1-phenyl-3-methylphenylamine (PHILIP and CALM), 1885, A., 155.
- α -Methoxy-*v*-phenyl- β -methyl- μ -thiomethylglyoxaline (MARCKWALD, NEUMARK and STELZNER), 1892, A., 152.
- p*-Methoxyphenyloximidoacetic acid (GARELLI), 1892, A., 328.
- o*-Methoxyphenylphenamidoacetic acid, nitrile of (VOSWINCKEL), 1883, A., 190.
- α -*o*-Methoxyphenyl δ -phenylnaphthotriazine (MELDOLA and FORSTER), 1891, T., 697.
- p*-Methoxyphenylpropionic acid, dibromo-*m*-nitro- (EINHORN and GRABFIELD), 1888, A., 478.
- 1-Methoxy-2'-phenylquinoline (DOEBNER), 1889, A., 411.
- 3-Methoxy-2'-phenylquinoline (DOEBNER), 1889, A., 411.
- 2-nitro-, and its derivatives (v. MILLER and KINKELIN), 1887, A., 978.
- Methoxyphenylthiocarbamide (TIEHMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1126; 1891, A., 558.
- p*-Methoxyphenyl-*p*-tolylmethylamine (HATSCHKE and ZEGA), 1886, A., 457.
- Methoxy*iso*propylstilbene (MAGNANIMI), 1886, A., 468.
- 2-Methoxypyridine (v. PECHMANN and BALTZER), 1892, A., 209.
- 4-Methoxypyridine (HAITINGER and LIEBEN), 1885, A., 811.
- Methoxyquinine methiodide (GRIMAU), 1892, A., 1363.
- Methoxyquinol (WILL), 1888, A., 458; (SCHWEITZER), 1889, A., 390.
- 1-Methoxyquinoline (SKRAUP), 1883, A., 93.
- 2-Methoxyquinoline (FISCHER), 1883, A., 91.
- 3-Methoxyquinoline (VULPIUS), 1885, A., 398; (SKRAUP), 1886, A., 79.
- 1'-Methoxy*iso*quinoline, 3'-chloro- [m.p. 73°-74°] (GABRIEL), 1887, A., 62.
- 3-Methoxyquinoline-4'-carboxylic acid (*quininic acid*) (SKRAUP), 1884, A., 86.
- 6-Methoxy-2:3-quinolinic acid (FEER and KOENIGS), 1885, A., 1235.
- 1-Methoxyquinolyl-1-hydroxyquinoline methiodide (LIPPMANN and FLEISSNER), 1890, A., 174.
- p*-Methoxyquinolylquinolines (*methoxydiquinolylines*), α - and β - (v. MILLER and KINKELIN), 1887, A., 979.
- Methoxyquinone, derivatives of (SCHWEITZER), 1889, A., 389.
- 2-Methoxyquinone (WILL), 1888, A., 458.
- Methoxyquinonedioxime (BEST), 1890, A., 608.
- Methoxysalicylic acid, dibromo- (PERATONER), 1887, A., 487.
- Methoxysuccinamide (PURDIE and MARSHALL), 1891, T., 470; P., 82.
- Methoxysuccinic acid (BREDT), 1883, A., 176; (PURDIE and MARSHALL), 1891, T., 471; P., 82.
- and its salts, properties of (PURDIE), 1885, T., 863.
- 1-Methoxystyrylpyridine (SCHUFTAN), 1890, A., 1438.
- 3-Methoxytetrahydroquinoline (*tetrahydro-p-quinonisoil*; "*thallin*") (SKRAUP), 1886, A., 80; (DRAGENDORFF and BLUMENBACH), 1887, A., 871.

- 3-Methoxytetrahydroquinoline** (*tetrahydro-p-quinazolinol*; "*thallin*"), preparation of (ANON.), 1885, A., 1023.
 physiological action of (PISENTI), 1888, A., 311.
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- α -Methoxy- μ -thiomethoxy- $\nu\beta$ -dimethylglyoxaline** (MARCKWALD, NEUMARK and STELZNER), 1892, A., 153.
- α -Methoxy- μ -thiomethoxy- β -methyl- ν -o- and - p -tolylglyoxalines** (MARCKWALD, NEUMARK and STELZNER), 1892, A., 152.
- Methoxythiophen**, thio- (MEYER and NEURE), 1887, A., 805.
- p -Methoxytoluene** (*tolyl methyl ether*), amido-derivatives of (LIMPACH), 1889, A., 698.
m-amido- (LIMPACH), 1889, A., 499.
 3-bromo- (SCHALL and DRALLE), 1885, A., 146.
 chloro- (SCHALL and DRALLE), 1885, A., 146; (LIMPACH), 1889, A., 499.
 iodo- (SCHALL and DRALLE), 1885, A., 146.
- Methoxytoluenesulphonic acid** (HEFFTER), 1884, A., 454.
- 4-Methoxy- m -toluonitrile** (*homomethylsalicylonitrile*) (LIMPACH), 1889, A., 499.
- Methoxytriphenylmethane**, *diamido*- (MAZZARA and POSSETTO), 1885, A., 1141.
- Methronene** (ERDMANN), 1885, A., 528.
- Methronic acid** (*methylfurfurancarboxypropionic acid*; *glyoxycarboxypropionic acid*) (FITTIG), 1886, A., 225; (POLONOWSKY), 1888, A., 1067; (FITTIG and HANTZSCH), 1889, A., 126; (v. EYERN), 1889, A., 592.
 See also Carbopyrotritic acid.
- Methyl amyl ketone** (*methylisopropylacetone*) (VAN ROMBURGH), 1887, A., 232.
 synthesis of (BÉHAL), 1886, A., 45.
- Methyl isomyl ketone** (SOKOLOFF), 1888, A., 125.
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- Methyl bromobutyl ketone**, preparation of (LIPP), 1886, A., 219.
- Methyl bromopropyl ketone** (LIPP), 1889, A., 844.
- Methyl butyl pinacone** (KABLUKOFF), 1888, A., 1170.
- Methyl isobutenyl ketone** (*mesityl oxide*; *isopropylideneacetone*), magnetic rotatory power of (PERKIN), 1887, P., 98; 1888, T., 586, 591.
 compound of phenylhydrazine with (FISCHER and KNOEVENAGEL), 1887, A., 932.
 nitroso- (CLAISEN and MANASSE), 1889, A., 585.
- Methyl isobutenyl ketoxime** (*mesityl oxime*; *isopropylideneacetoneoxime*) (NÄGELI), 1883, A., 728.
- Methyl butyl ether** (HENRY), 1892, A., 27.
- Methyl butyl ketone**, oxidation of (WAGNER), 1885, A., 1197; 1892, A., 36.
- Methyl isobutyl ketone** (KUWSCHNOFF), 1888, A., 125; (WAGNER), 1892, A., 36.
- Methyl isobutyl diketone** (*diketooheptane*) (ÖTTE and v. PECHMANN), 1889, A., 1138.
- Methyl sec.-butyl ketone** and its derivatives (WISLICENUS), 1883, A., 966.
- Methyl tert.-butyl ketone** (*pinacolone*), oxidation of (GLÜCKSMANN), 1890, A., 237.
- Methyl butyl ketoxime** (JANNY), 1883, A., 580.
- Methyl β -butyl pinacone** (WISLICENUS), 1883, A., 966.
- Methyl tetrachlorethyl ether** (MAGNANIMI), 1887, A., 28.
- Methyl chlorethyl ketone** (VLADESCO), 1891, A., 1183; 1892, A., 810.
 reactions of (VLADESCO), 1892, A., 810.
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- Methyl dichlorethyl ketone** (VLADESCO), 1891, A., 1183.
- Methyl chlorovinyl α -diketone**, dichloro- (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Methyl dichlorovinyl ether** (DENARO), 1881, A., 1282.
- Methyl coumaroketone**. See *o*-Hydroxystyryl methyl ketone.
- Methyl dimethylthienyl ketoxime** (MESSINGER), 1885, A., 1205.
- Methyl ethyl ketone** (*methylacetone*), action of chlorine on (VLADESCO), 1891, A., 1183; 1892, A., 425.
 action of sodium on (SCHRAMM), 1883, A., 1079.
 nitroso- (CERESOLE), 1883, A., 41.
- Methyl ethyl ketoxime** (JANNY), 1883, A., 580.

- Methyl ethyl ketoxime**, action of hydrocyanic acid on (V. MILLER and PLÖCHL), 1892, A., 1196.
 action of phosphoric chloride on (HANTZSCH), 1892, A., 426.
- Methyl ethyl pinacone** (SCHRAMM), 1883, A., 1080.
- Methyl hexyl ketone** [b.p. 208°—210°] (POETSCH), 1883, A., 729.
 normal [b.p. 172°] (BÉHAL), 1887, A., 788; 1892, A., 293.
- Methyl hexyl ketoxime** (BÉHAL), 1887, A., 795; (SCHOLL), 1888, A., 443; (HANTZSCH), 1892, A., 427; (HOLLEMAN), 1892, A., 971.
- Methyl ketones**, aromatic, and their oxidation (CLAUS), 1886, A., 462.
- Methyl mercaptan** and its derivatives (OBERMEYER), 1888, A., 124.
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perchloro-. See Thiocarbonyl tetrachloride.
- Methyl mercaptides** (KLASON), 1888, A., 356.
- Methyl nonyl ketone** from *Citrus Limetta* (WATTS), 1886, T., 317; P., 158.
- Methyl nonyl ketoxime** (SPIEGLER), 1884, A., 1115.
- Methyl propyl ether** (HENRY), 1892, A., 27.
- Methyl propyl ketone** (*methylacetone*) (LIEBEN and ZEISEL), 1883, A., 570.
hexa- and *hepta-chloro-* (ZINCKE and FUCHS), 1892, A., 1462, 1463.
nitroso- (CLAISEN and MANASSE), 1889, A., 585.
thio- (AUTENRIETH), 1891, A., 541.
- Methyl isopropyl ketone** (*dimethylacetone*) (ELTEKOFF), 1883, A., 566.
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- Methyl propyl and isopropyl diketones** (*diketohexones*) (OTTE and V. PECHMANN), 1889, A., 1138.
- Methyl propyl ketoxime**, action of phosphoric chloride on (HANTZSCH), 1892, A., 427.
- Methyl isopropyl ketoxime** (NÄGELI), 1884, A., 611.
 action of phosphoric chloride on (HANTZSCH), 1892, A., 427.
- Methyl trimethylene ketone** (PERKIN), 1885, T., 835.
- Methylacetanilide** (GIRAUD), 1889, A., 704; (PICTET), 1890, A., 758.
 action of zinc chloride on (PICTET and FERT), 1890, A., 1112.
- Methylacetoacetamide** (PETERS), 1890, A., 1097.
- Methylacetoacetanilide** (KNORR), 1888, A., 1111.
- Methylacetoacetic acid** (CERESOLE), 1883, A., 41.
 action of diazobenzene chloride on (JAPP and KLINGEMANN), 1888, T., 539; P., 11.
- Methylacetone**. See Methyl ethyl ketone.
- Methylacetothienone**. See Methylthienyl methyl ketone.
- p-Methylacetotoluidide**, *m-nitro-* (NIEMENTOWSKI), 1887, A., 937.
- Methylacetylacetone** (COMBES), 1888, A., 128.
 refractive and dispersive powers of (PERKIN), 1892, T., 850, 852; P., 100.
 magnetic rotation of (PERKIN), 1892, T., 813, 842, 848; P., 100.
- Methylacetyl-acetonitrile and -carbinol** (VLADESCO), 1892, A., 810.
- Methylacetylcarbinyl acetate and butyrate** (VLADESCO), 1892, A., 810.
- α -Methyl- β -acetylpropionic acid**, distillation of (THORNE), 1885, A., 1200.
- Methylacetyl-**. See also Acetylmethyl-.
- Methylacridine** (BERNTSEN and BENDER), 1883, A., 1133; (FISCHER), 1883, A., 1134.
 action of methylic iodide on (BERNTSEN), 1884, A., 1356.
- Methylacridinechloral** (*ω -trichloro- β -hydroxypropylacridine*) (BERNTSEN and MÜHLERT), 1887, A., 849.
- Methylacridone** (DECKER), 1892, A., 881.
- Methacrylic acid** (*methacrylic acid*), bromi-addition derivatives of (KOLBE), 1883, A., 573.
- Methacrylic anilide** (BISCHOFF), 1891, A., 828.
- Methylæsculetin** (TIEMANN and WILL), 1883, A., 199.
- Methylal**, physiological action of (MAIRET and COMBEMALE), 1887, A., 391, 684.
- Methylals** (ARNHOLD), 1887, A., 911.
- Methylalloxazine** (KÜHLING), 1892, A., 70.
- Methylallylbenzene** (ERRERA), 1885, A., 772.
- Methylallylcarbinol**, oxidation of (WAGNER), 1889, A., 231.
- Methylisallylene** (NORTON and NOYES), 1889, A., 361.
- Methylallylsuccinic acids** (HJELT), 1892, A., 697.
- Methylallylthiocarbamide** (HECHT), 1890, A., 477; (AVENARIUS), 1891, A., 549.

- Methylallyl- ψ -thiocarbamide** (AVEN-ARIUS), 1891, A., 549.
- Methylallylthiohydantoin** (MARCK-WALD, NEUMARK and STELZNER), 1892, A., 151.
- Methylamarine** (CLAUS and SCHERBEL), 1886, A., 237.
- Methylamidoacetic acid.** See Sarcosine.
- Methylamidoazobenzene** (*benzenazo-methylaniline*), and its acetyl-derivative (BERJ), 1884, A., 1149.
- p*-nitro- (NÖLTING), 1888, A., 273.
- Methylamidoazobenzenesulphonic acid**, sodium salt of. See Helianthin.
- Methylamidobenzamide**, *o*-nitroso- (FINGER), 1888, A., 948.
- o*-Methylamidobenzene**, nitroso- (MEYER), 1886, A., 63.
- p*-Methyl-*o*-amidobenzenylamidoxime** (WEISE), 1890, A., 47.
- 2-Methylamidobenzmethylamide**, 5-nitro- (THIEME), 1891, A., 917.
- Methylamidobenzoic acid** (ZACHARIAS), 1891, A., 913.
- Methylamidobenzoic acids**, chloro- (LA COSTE and BODEWIG), 1885, A., 793.
- nitro- (THIEME), 1891, A., 916, 917.
- Methylamido- α -butyrocyamidine** (DUVILLIER), 1883, A., 220.
- Methylamidocarbimidocyanamido-benzoyl** (GRIESS), 1885, A., 1227.
- β -Methylamidocrotonanilide** (KNORR and TAUFKIRCH), 1892, A., 708; (BRÜHL), 1892, A., 730, 1106; (LEDERER), 1892, A., 965.
- Methyl-*mono*- and -*di*-amidocyanidines**, *dip*erchloro- (WEDDIGE), 1886, A., 323, 324.
- Methylamido-*p*-diketohexene**, *penta*-chloro- (ANGELI), 1892, A., 449.
- Methyl-*p*-amidodiphenylmethane** (MANN), 1889, A., 261.
- Methylamidoformic chloride** (GATTER-MANN and SCHMIDT), 1887, A., 358.
- Methylamido- α -hexoic acid**, and its derivatives (DUVILLIER), 1884, A., 664.
- Methylamido- α -hexoic cyamidine** (DUVILLIER), 1883, A., 1153.
- Methylamidohydroxybutyric acid** (FIELINSKY), 1885, A., 752.
- Methylamidomethoxycyanuric chloride** (V. HOFMANN), 1886, A., 40.
- Methylamidomethylnitramidobenzene**, 2:4:6-, *trib*nitro- VAN ROMBERGH, 1889, A., 1154.
- Methylamidomethylsuccinamic acid** (KÖRNER and MENOZZI), 1890, A., 870.
- Methylamidomethylthiazole** (HANTZSCH and WEBER), 1888, A., 257.
- Methyl- β -amidonaphthylhydroquinoline** (REED), 1887, A., 682.
- Methylamidoperezone** (MYLIUS), 1885, A., 778.
- Methylamidophenylethane**, nitroso- (HEUMANN and WIERNIK), 1887, A., 1039.
- $\alpha\beta$ -Methyl-*m*-amidophenylpropionic acid** (V. MILLER and ROHDE), 1890, A., 1140.
- Methyl-*o*-amidostyrene**, ω -chloro- (LIPP), 1885, A., 167.
- Methylamidosuccinamic acid** (KÖRNER and MENOZZI), 1890, A., 871.
- β -Methyl- μ -amidothiazole** (HUBACHER), 1891, A., 222.
- α -Methylamidovaleric acid** and its derivatives (MENOZZI and BELLONI), 1887, A., 797.
- Methylamido-*iso*valerocyamidine** (DUVILLIER), 1883, A., 221.
- Methylamine**, properties of (V. HOFMANN), 1889, A., 688.
- heat of formation of (MULLER), 1889, A., 811.
- commercial, extraction of amines from (MULLER), 1885, A., 501.
- chlororhodate (VINCENT), 1886, A., 311.
- hydroferrocyanide, crystalline form of (HIORTDAHL), 1886, A., 522.
- hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1000.
- hydrogen malate, action of heat on (GIUSTINIANI), 1892, A., 820.
- platinothiocyanate (GUARESCHI), 1892, A., 286.
- trimethylacetic acid (FRANCHIMONT and KLOBBIE), 1888, A., 1062.
- vanadates (BAILEY), 1884, T., 692, 694; (DITTE), 1887, A., 899.
- Methylammoniochelidonic acid** (LIEBEN and HAITINGER), 1884, A., 1196.
- Methylammonium rhodiochlorides** (VINCENT), 1885, A., 1116.
- salts, compounds of, with thiocarbamide (REYNOLDS), 1891, T., 392; P., 79.
- Methylamylacetylene** (BÉHAL and DESGREZ), 1892, A., 1065.
- hydration of (BÉHAL), 1889, A., 227.
- hexylacetylene from (BÉHAL), 1889, A., 950.
- Methylamylheptenylcarbinol** and its acetate [$C_{11}H_{20}O$] (PERKIN), 1883, T., 56, 76.

- Methylisoamylquinol** (FIALA), 1886, A., 454.
- Methylanhydroacetonebenzil** (JAPP and BURTON), 1887, T., 431; P., 32.
- Methylanhydroecgonine methiodide** (EINHORN), 1889, A., 170.
- Methylanilalloxan** (PELLIZZARI), 1888, A., 143, 682.
- Methylanilidoacetamide** and its hydrochloride (SILBERSTEIN), 1885, A., 160.
- Methylanilidoacetic acid**, hydrochloride of (SILBERSTEIN), 1885, A., 160.
- Methylanilidoazotribromobenzene** (SILBERSTEIN), 1883, A., 663.
- Methylanilidocarbamidophenol** (KALCKHOFF), 1883, A., 1110.
- Methylanilidodimethylpyrroline** (KNORR), 1887, A., 276.
- Methylanilidoethylphthalimide** (NEWMAN), 1891, A., 1208.
- Methylanilidoformylcamphor** (CLAISEN), 1891, A., 575.
- Methylaniline** (PICHET), 1890, A., 758. preparation of (REINHARDT and STAEDEL), 1883, A., 578. heat of formation of (PETIT), 1888, A., 1239. action of picric chloride on (TURPIN), 1891, T., 716. action of sulphur on (MÖHLAU and KROHN), 1888, A., 364. estimation of (REVERDIN and DE LA HARPE), 1889, A., 1038. acetyl-derivative of, preparation of (REINHARDT and STAEDEL), 1883, A., 578.
- Methylaniline**, *p*-bromo-, action of diazotised *m*- and *p*-nitranilines on (MELDOLA and STREATFEILD), 1889, T., 425, 418; P., 98. action of diazotised *p*-toluidine on (MELDOLA and STREATFEILD), 1889, T., 433, P., 98. 6-bromo-2:4-dinitro- (NORTON and ALLEN), 1885, A., 1214. *p*-chloro-, action of diazotised *p*-toluidine on (MELDOLA and STREATFEILD), 1889, T., 436; P., 98. *o*-nitro- (HEMPEL), 1890, A., 612. *m*-nitro- (NÖLTING and STRICKER), 1886, A., 544; (MELDOLA and SALMON), 1888, T., 777. action of diazotised *p*-bromaniline on (MELDOLA and STREATFEILD), 1889, T., 426; P., 98. action of diazotised *p*-nitraniline on (MELDOLA and STREATFEILD), 1888, T., 667; P., 63. *p*-nitro- (MELDOLA and SALMON), 1888, T., 775.
- Methylaniline**, *p*-nitro-, action of diazotised *p*-bromaniline on (MELDOLA and STREATFEILD), 1889, T., 419; P., 98. action of diazotised *m*-nitraniline on (MELDOLA and STREATFEILD), 1888, T., 668; P., 63. dinitro- (NORTON and ALLEN), 1885, A., 1214. action of potassium cyanide on (LIPPMANN and FLEISSNER), 1886, A., 235. tetranitro- (v. ROMBURGH), 1885, A., 660; 1889, A., 971; (MERTENS), 1886, A., 1022. *o*-nitronitroso- (HEMPEL), 1890, A., 612. 1:4-nitroso- (FISCHER and HEPP), 1887, A., 244. See also Phenylmethyl nitrosamine, nitrosothio-, and thio- (MICHAELIS and GODCHAUX), 1891, A., 75. nitrosothionyl- (MICHAELIS and GODCHAUX), 1891, A., 74. thionyl- (MICHAELIS and GODCHAUX), 1891, A., 74.
- Methylanilines**, analysis of (GIRAUD), 1890, A., 309; (REVERDIN and DE LA HARPE), 1890, A., 430. nitration of (MERTENS), 1886, A., 1022.
- Methylaniline-fumaride** and -succinide (PIUTTI), 1886, A., 792.
- Methyl-*n*- and -*iso*-anisaldoximes** (GOLDSCHMIDT), 1890, A., 1261.
- Methyl-*o*-anisidine** (BEST), 1890, A., 607. *tr*-nitro- (GRIMAU and LEFÈVRE), 1891, A., 1032. *p*-nitroso- (BEST), 1890, A., 607.
- α -Methylanthracene** [Me=1] (BIRUKOFF), 1887, A., 965.
- β -Methylanthracene** (ELBS), 1890, A., 511.
- Methylanthracenes**, conversion of cinnamene derivatives of aromatic hydrocarbons into (KRAEMER, SPILKER and EBERHARDT), 1891, A., 207.
- Methylanthragallols** and their derivatives (CAHN), 1887, A., 57.
- p*-Methylanthranil-amidoanilide**, -anilide and -imide (PANAOVIĆ), 1886, A., 361.
- Methylanthranol**, amido- (ROEMER; ROEMER and LINK), 1883, A., 1137. diacetyl-derivative of (ROEMER and LINK), 1883, A., 1138.
- α -Methylanthraquinone** (BIRUKOFF), 1887, A., 965. and some of its derivatives (BÜRNSTEIN), 1883, A., 70.

β -Methylantraquinone (ELBS), 1886, A., 557; 1890, A., 511.
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Methylarecaidine (JAHNS), 1892, A., 739.

Methylarsen disulphide (KLINGER and KREUTZ), 1889, A., 363.

Methylasparagine (KÖRNER and MENOZZI), 1890, A., 871.

Methylaspartic acid and dimethylamide (KÖRNER and MENOZZI), 1890, A., 871, 870.

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Methylazaurolic acid (MEYER and CONSTAM), 1883, A., 41.

Methylazelaic acid (*octanedicarboxylic acid*) (FREER and PERKIN), 1888, T., 218.

Methylazimidobenzene, *trichlorobromo-* (ZINCKE and ARZBERGER), 1889, A., 502.

Methylazimidothiazolecarboxylic acid (WOHMANN), 1891, A., 226.

Methylazobenzene, *tetranitro-* (MERTENS), 1886, A., 1022.

Methylazophenine (REICHOLD), 1890, A., 610.

Methylisobarbituric acid (LEHMANN), 1890, A., 32.

Methylisobenzaldoxime (GOLDSCHMIDT and KJELLIN), 1891, A., 1478.

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p-nitro- (GOLDSCHMIDT and KJELLIN), 1891, A., 1477.

Methylbenzamide, *o*-chloro- (GABRIEL), 1887, A., 1038.

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p-Methylbenzamide, *o*-nitro-. See *p*-Toluamide, 3-nitro-.

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Methylbenzenes, action of methylenic chloride on, in presence of aluminium chloride (FRIEDEL and CRAFTS), 1887, A., 1102.

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p-Methylbenzenylamidoxime, *o*-nitro-. See *p*-Tolonylamidoxime, 3-nitro-.

m-Methylbenzhydrazoin (CORNELIUS and HOMOLKA), 1886, A., 1026.

o-Methylbenzidine (HIRSCH), 1891, A., 210.

p-Methylbenzil (*phenyl tolyl diketone*) (BUCHER), 1890, A., 168.

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p-Methylbenzonitrile, *o*-nitro-. See *p*-Toluenitrile, 3-nitro-.

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o-Methylbenzylamine and its salts (STRASSMANN), 1888, A., 474; (BAMBERGER and MÜLLER), 1888, A., 950.

m-Methylbenzylamine (BRÖMME), 1888, A., 1295.

p-Methylbenzylamine (BAMBERGER and LÖPTE), 1887, A., 719; (ZAUEN-SCHIRM), 1888, A., 1077; (HINSBERG), 1892, A., 65.

Methylbenzylhydroamarine (CLAUS), 1883, A., 203.

Methylbenzylidene, *dithio-* (BONGARTZ), 1888, A., 479.

Methylbenzylidenic chloride, conversion of, into triphenylbenzene (BEHAL), 1889, A., 998.

Methylbergapic acid (POMERANZ), 1892, A., 71.

Methylbismuthine dibromide, *dichloride* and *diiodide* (MARQUARDT), 1887, A., 802.

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Methylbornylcarbamide (LEUCKART and BACH), 1887, A., 377.

Methylbromodiketohydrindene (WISLIGENUS and KÖTZLE), 1889, A., 1068.

β -Methylbromumbelliferone dibromide (V. PECHMANN and COHEN), 1884, A., 1331.

Methylbrucine, ammonium base obtained from (HANSEN), 1885, A., 819.

Methylbutallylcarbinamine (MERLING), 1891, A., 1507.

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Methylbutylacetic acid (*heptioic acid*) (KILIAN), 1886, A., 438.

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- Methylisobutylcarbinol** (*heptylic alcohol*) (KUWSCHINOFF), 1888, A., 125.
- Methylbutylethylene.** See Heptylene.
- Methylisobutylglyoxaline** (*oxalimethylisocyaniline*) (RADZISZEWSKI and SZUL), 1884, A., 986.
- Methylisobutylparaconic acids, α - and β -** (FITTIG and FEIST), 1890, A., 592.
- Methylbutylphenylacetic acid** (BÉHAL and AUGER), 1890, A., 388.
- Methylisobutylphenyldimethylamine** (*dimethyl-o-toluisobutylamine*) (EFFRONT), 1885, A., 153.
- Methylisobutylquinol** (FIALA), 1884, A., 1139.
- s-Methylisobutylthiocarbamide** (HECHT), 1892, A., 702.
- Methylcafeidine** (WERNECKE), 1888, A., 69.
- Methylcaffuric acid** (SCHMIDT and SCHILLING), 1885, A., 995.
- Methylcamphor** (MINGUIN), 1891, A., 1500; 1892, A., 1343.
- Methylcarbamide, nitroso-** (v. BRÜNING), 1888, A., 936.
- Methylcarbamido-**. See Methyluramido-.
- Methylcarbazaeridine** (BIZZARRI), 1892, A., 343.
- Methylcarbodinicotinic acid.** See Picolinetricarboxylic acid.
- Methylcarbophenyllutidylumdehydrate** (HANTZSCH), 1885, A., 398.
- Methylcarbostyryl, amido-, and nitro-** (FEER and KOENIGS), 1885, A., 1235.
- 1-Methylcarbostyryl** (*o-tolucarbostyryl*), 3':4'-dichloro- (RÜGHEIMER and HOFFMANN), 1886, A., 160.
- 3-Methylcarbostyryl** (*p-tolucarbostyryl*), 3':4'-dichloro-, and 3':4'-dichloro-nitro- (RÜGHEIMER and HOFFMANN), 1886, A., 160.
- 4'-Methylcarbostyryl, and derivatives** (KNORR), 1884, A., 334, 1198; 1887, A., 159; (ANON.), 1884, A., 757; (FISCHER and WITTMACK), 1884, A., 1052.
- reduction of (KNORR and KLOTZ), 1887, A., 278.
- nitroso- (FISCHER and WITTMACK), 1884, A., 1052.
- Methyl- ψ -carbostyryl and its derivatives** (FRIEDLÄNDER and MÜLLER), 1887, A., 977.
- Methylcarboxyphenylacetic acid** (BÉHAL and AUGER), 1890, A., 389.
- Methylcarvoxime** (GOLDSCHMIDT and ZÜRRER), 1885, A., 1058.
- Methylchlorallylcarbinol** (GARZAROLLI-THURNLACKH), 1884, A., 1118.
- 2'-Methyltrichlorethylidenequinoline** (EINHORN), 1886, A., 264.
- Methyltrichlorobromazimidobenzene** (ZINCKE and ARZBERGER), 1889, A., 502.
- Methylchloroform.** See triChloroethane.
- Methylchrysoidine** (NÖLTING and STRICKER), 1886, A., 544.
- Methylapocinchonic acid** (COMSTOCK and KOENIGS), 1885, A., 1249.
- Methylapocinchonine and its hydrochloride** (COMSTOCK and KOENIGS), 1885, A., 1248.
- Methylcinchonamine** (HESSE), 1885, A., 66.
- 1'-Methylcinchoninic acid** (v. MILLER), 1891, A., 1097.
- 3'-Methylcinchoninic acid** (v. MILLER), 1890, A., 1325.
- Methylcinnamene.** See Tolylacetylene.
- α -Methylcinnamic acid.** See Phenylcrotonic acid.
- Methylcinnamic acids.** See Tolylacrylic acids.
- Methylcinnamoyldextroecgonine** (DECKERS and EINHORN), 1891, A., 475.
- Methylcinnolinecarboxylic acid** (WIDMAN), 1884, A., 1022.
- Methylcitraconic acid** (FITTIG and FRÄNKEL), 1890, A., 585; (BISCHOFF), 1891, A., 1221.
- Methylcocaine** (LIEBERMANN and GIESEL), 1890, A., 647, 803; (EINHORN and MARQUARDT), 1890, A., 913; (GIESEL), 1890, A., 1011.
- Methylcodeine and its derivatives** (GRIMAUX), 1883, A., 359; (HESSE), 1884, A., 614.
- Methylcolchicine** (JOHANNY and ZIESEL), 1889, A., 282.
- Methylconiine** (PASSON), 1891, A., 1118.
- Methylcopellidine.** See Tetramethylpiperidine.
- Methylcoumaraldehyde** (*methoxycinnamaldehyde*), nitro- (v. MILLER and KINKELIN), 1889, A., 990.
- Methyl-o-coumaric acid derivatives** (SCHNELL), 1884, A., 1165; 1887, A., 140.
- m*-amido- (SCHNELL), 1884, A., 1165; 1887, A., 140.
- 3-nitro- (v. MILLER and KINKELIN), 1889, A., 989.
- 5-nitro- (SCHNELL), 1884, A., 1165; 1887, A., 140.
- Methyl-m-coumaric acid** (*methoxycinnamic acid*) (TIEMANN and LUDWIG), 1883, A., 189.
- 6-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1101.

- Methyl-*p*-coumaric acid** (VALENTINI), 1885, A., 264; (MAGNANIMI), 1886, A., 467.
α-bromide and its derivatives (EIGEL), 1887, A., 1110.
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β-Methylcoumarilamide (HANTZSCH), 1886, A., 1014.
β-Methylcoumarilic acid (HANTZSCH), 1886, A., 707.
α-Methylcoumarin, thio- (ALDRINGEN), 1890, A., 624.
β-Methylcoumarin, and its derivatives (v. PECHMANN and DUISBERG), 1884, A., 67.
β-Methylcoumarone (HANTZSCH), 1886, A., 707.
α-Methylcoumaroxime (ALDRINGEN), 1890, A., 624; 1892, A., 330.
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Methyl-*o*-coumarylic alcohol (HARRIES), 1892, A., 169.
β-Methylcrotonanilide, derivatives of (BRÜHL), 1892, A., 1106.
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Methylcumazonic acid, and its derivatives (WIDMAN), 1884, A., 303.
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***o*-Methylcyanacetophenone** (HALLER), 1889, A., 874.
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Methylcyanobutine hydriodide (TRÖGER), 1888, A., 802.
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β-Methyldaphnetin (v. PECHMANN and COHEN), 1885, A., 56.
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Methyldeoxybenzoin (MEYER and OELKERS), 1888, A., 703.
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***m*-Methyldeoxybenzoin-*o*-carboxylic acid** (HEILMANN), 1890, A., 625.
***μ*-Methyldeoxybenzoin-*o*-carboxylic acid** (RUHEMANN), 1892, A., 473.
Methyldeoxystrychnine (TAFEL), 1892, A., 1014.
Methyl-*αα*-diacetylpentane (KIPPING and PERKIN), 1889, T., 346; P., 79.
Methyldiazoamidobenzene (*diazobenzenemethylanilide*) (FRISWELL and GREEN), 1886, T., 748; (NÖLTING and BINDER), 1888, A., 273.
Methyldibutyltetrahydrophenanthrol-ine (SCHIFF and VANNI), 1890, A., 138.
Methyldicarbocollidylumdehydride, and the action of acids on (HANTZSCH), 1884, A., 1046.
3-Methyl-2':3'- or -4'-diethoxyquinoline, chloro- (RÜGHEIMER and HOFMANN), 1886, A., 160.
Methyldiethylamine (PASSON), 1891, A., 1118.
Methyldiethylcarbinol (REFORMATSKY), 1888, A., 244.
5-Methyl-2:4-diethyl-*m*-diazine, 6-amido-. See Cyanethine.
Methyldiethylmethane. See *sec*-Hexane.
Methyldiethylphenylenediamine (WEINBERG), 1892, A., 1078.
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Methyldiethylthiocarbamide (NOAH), 1890, A., 1241.
Methyldiethyluracil (BEHREND; HOFMANN), 1890, A., 31.
Methyldiguanide and its compounds (REIBENSCHUH), 1883, A., 974.
Methyldihydroanthracene, amido-, and its derivatives (ROEMER), 1883, A., 1137.
Methyldihydroindole, 1', 2', and 3', and their derivatives (WENZING), 1887, A., 957.
2'-Methyldihydroindole, actions of (BAMBERGER), 1891, A., 1097.
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2'-Methyldihydronaphthindole (SCHIEFER), 1887, A., 154.
Methyldihydropentene methyl ketone (PERKIN), 1889, P., 142; 1890, T., 232; (MARSHALL and PERKIN), 1889, P., 143; 1890, T., 242.
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- Methyldihydropentene methyl ketoxime** (PERKIN), 1889, P., 141; 1890, T., 236.
- Methyldihydropentenedicarboxylic acid** (PERKIN), 1889, P., 142; 1890, T., 233.
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- 1-Methyldihydropyrroline** (MAGNAGHI), 1885, A., 809.
- 2'-Methyldihydroquinazoline** (GABRIEL and JANSEN), 1890, A., 1443.
- 3'-Methyldihydroquinazoline, 2'-thio-** (SÖDERBAUM and WIDMAN), 1890, A., 178.
- Methyldiodamine** (RASCHIG), 1886, A., 44.
- Methyl-2':4'-diketodihydroquinazolines, 1'- and 3'-** (AET), 1889, A., 610.
- β -Methyl- α -diketohydrindene** (WISLICENS and KÖTZLE), 1889, A., 1068.
- α -Methyldinicotinic acid.** See 2-Methylpyridine-3:5-dicarboxylic acid.
- Methyldiosphenol** (SHIMOMURA), 1888, A., 1205.
- 1'-Methyldioxindole** (COLMAN), 1888, P., 96; 1889, T., 8.
- γ -Methyl- ψ -dioxythiazole** (ARAPIDES), 1889, A., 414.
- 1:3-Methyldiphenyl** (*phenyltoluene*) (ADAM), 1888, A., 959; (PERRIER), 1892, A., 851.
- Methyldiphenylcarbinyl-**. See Phenyltolylcarbinyl.
- Methyldiphenylene ketone oxide** (PHOMINA), 1890, A., 901.
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- Methyldiphenylformamidine** (COMSTOCK and WHEELER), 1892, A., 707.
- Methyldipropylamine** (PASSON), 1891, A., 1118.
- Methyldipropylcarbinol** (*octylic alcohol*) (GORTALOFF and SAYTZEFF), 1886, A., 437.
- Methyldiisopropylidihydroquinoline** (DENNSTEDT), 1889, A., 402.
- α -Methyldipyridyl and α -methyldipyridyl- α -carboxylic acid** (HEUSER and STOEHR), 1891, A., 81; 1892, A., 75.
- Methylecgonine** (LIEBERMANN and GIESEL), 1890, A., 647; (EINHORN and MARQUARDT), 1890, A., 913.
- Methylemetonium hydroxide** (KUNZ), 1887, A., 981.
- Methylene, derivatives of** (HENRY), 1886, A., 43.
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trioxime (SCHOLL), 1891, A., 663.
- Methylene-azure** (BERNTHSEN), 1886, A., 55.
- 4-Methylenebis-1-phenyl-3-methylpyrazolone** (PELLIZZARI), 1890, A., 646.
- Methylene-blue.** See Colouring matters.
- Methylenecarbamide** (v. HEMMELMAYR), 1891, A., 1340.
- Methylenecarbazole** (PULVERMACHER and LÖB), 1892, A., 1466.
- Methylene-cinchonic and -cinchonic acids** (CLAUS), 1892, A., 1489, 1490.
- Methylenediacetamide** (PULVERMACHER), 1892, A., 579.
- Methylenediamines,** substituted (EHRENBERG), 1887, A., 1026.
- Methylenedibenzamide** (PINNER), 1891, A., 469; (THIESING), 1892, A., 467; (PULVERMACHER), 1892, A., 580.
- Methylenedibenzylamine.** See Dibenzylmethylenediamine.
- Methylenedigallic acid** (CARO), 1892, A., 856.
- Methylene-3:4-dihydroxybenzyl glycol** (TIEMANN), 1892, A., 47; (WAGNER), 1892, A., 310.
- Methylenedimalonic acid.** See Propanetetracarboxylic acid.
- Methylenedi- β -naphthyl oxide** (CLAUS and RUPPEL), 1890, A., 511.
- Methylenediphenyldiamine** (PRATESI), 1885, A., 782.
- γ -Methylenediphenylene** (HODGKINSON and MATTHEWS), 1883, T., 164.
- γ -Methylenediphenylenesulphone.** See Diphenylenemethanesulphone.
- α -Methylenediphenylenesulphonic acid,** and the fusion of its potassium salt with potash (HODGKINSON and MATTHEWS), 1883, T., 166.
- γ -Methylenediphenylenic sulphide** (GRAEBE and SCHULTESS), 1891, A., 1059.
- Methylenediphenylic oxide** (RICHTER), 1884, A., 324.
- Methylenedipthalimide** (NEUMANN), 1890, A., 890.
- Methylenedipiperidine** (ESCHWEILER), 1890, A., 955; (KRAUT, ESCHWEILER and GROSSMANN), 1890, A., 1092.
- Methylenedipyrogallol** (CARO), 1892, A., 856.
- Methylenediquinoid.** See Methylenequinolylquinoline.
- Methylene-diresorcinol and -diresorcylic acid** (CARO), 1892, A., 856.
- Methylenedisalicylic acid** (CARO), 1892, A., 855.
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- Methylenedisulphonic acid.** See Methanedisulphonic acid.
- Methylenedi-*o*- and -*p*-toluidines** (GRÜNHAGEN), 1890, A., 888.
- Methylenedi- α -toluoylamide** (THIESING), 1892, A., 467.
- Methylenedi-*o*- and *p*-toluoylamides** (THIESING), 1892, A., 467.
- Methylene-ethylamine** (KOLOTOFF), 1886, A., 139.
- Methylene group**, replacement of the hydrogen atoms in (WALLACH), 1891, A., 189.
- Methylene-*di*-*o*-, -*m*- and -*p*-nitranilines** (PULVERMACHER), 1892, A., 1450.
- Methylene-*dinitro*di-*benzamide*** (THIESING), 1892, A., 467.
- Methylenephthalimidine** (MERTENS), 1887, A., 51.
- Methylenephthalide** (GABRIEL), 1885, A., 1228.
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- Methylenephthalomethimidine** (GABRIEL), 1885, A., 1228.
- Methylenephthalphenimidine** (MERTENS), 1887, A., 52.
- Methylenequinolylquinoline** (*methylenediquinol*) hydrochloride (RHOUSSOPOULOS), 1883, A., 1150.
- Methylene-red and -violet** (BERNTHSEN), 1886, A., 54.
- Methylenethiocarbamide** (V. HEMMELMAYER), 1891, A., 1339.
- Methylenedithiodiacetamide** (PULVERMACHER), 1892, A., 580.
- Methylene-white.** See Leucomethylene-blue under Colouring matters.
- Methylenic dibromide** (*dibromomethane*) (HENRY), 1884, A., 718.
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- Methylenic dichloride** (*dichloromethane*), *mono*- and *di*iodo- (HOLAND), 1887, A., 905.
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- Methylenitan.** See Carbohydrates.
- Methylenyl-.** See Methylonyl-.
- Methylerythrohydroxyanthraquinone** (BIRUKOFF), 1887, A., 964.
- Methylethenyltolylenediamine** and its methiodide (NIEMENTOWSKI), 1887, A., 937, 938.
- Methylethylacetal** (RÜBENCAMP), 1885, A., 136.
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- Methylethylacetates**, solubility of (SEDLITZKY), 1888, A., 250.
- Methylethylacetic acid**, zinc salt of (SCHMIDT), 1886, A., 867.
- Methylethylacetoximic acid** (SCHRAMM), 1883, A., 573.

- Methylethylacetylene** (*pentinene*), conversion of, into propylacetylene (FAWORSKY), 1888, A., 1168.
- β -Methyl- α -ethylacetylpropionic acid**, distillation of (THORNE), 1885, A., 1200.
- α -Methyl- β -ethylacraldehyde** (*hercovic aldehyde*) (LIEBEN and ZEISEL), 1883, A., 570; (SOLONINA), 1888, A., 806.
- action of ammonia on (HOPPE), 1889, A., 120.
- action of sulphuric acid on (LUDWIG), 1892, A., 951.
- action of sulphurous acid on (LUDWIG), 1889, A., 121.
- oxidation of (LIEBEN and ZEISEL), 1883, A., 570.
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- Methylethylacrylic acid**. See Hexenoic acid.
- Methylethylamido-*iso*-oxazole**. See Methylethyl-*iso*-oxazole.
- Methylethylamine** (SKRAUP and WIEGMANN), 1889, A., 1018; (HINSBERG), 1892, A., 64.
- Methylethylaniline** and its derivatives (CLAUS and HOWITZ), 1884, A., 1005; (CLAUS and HIRZEL), 1887, A., 135.
- o*-Methylethylbenzene** (*ethyltoluene*), preparation of (CLAUS and MANN), 1885, A., 888.
- oxidation of (CLAUS and MANN), 1885, A., 888; (CLAUS and PIESZCZEK), 1887, A., 240.
- bromo- (CLAUS and PIESZCZEK), 1887, A., 240.
- mono*- and *di*-nitro- (CLAUS and PIESZCZEK), 1887, A., 240.
- p*-Methylethylbenzene** (ANSCHÜTZ and ROMIG), 1885, A., 769.
- m*-diamido- (ERRERA and BALDRACCO), 1892, A., 606.
- o*-Methylethylbenzene- β -sulphonic acid** and chloride (CLAUS and PIESZCZEK), 1887, A., 240.
- Methylethylbromaniline** (CLAUS and HOWITZ), 1884, A., 1006.
- Methylethylbromoxazolone**. See Methylethylloxazolone.
- Methylethylcarbincarbinol** (LIEBEN and ZEISEL), 1886, A., 784.
- Methylethylcarboxyglutaric acid** (BISCHOFF), 1891, A., 829.
- 3-Methyl-2'-ethylcinchoninic acid** (v. MILLER), 1890, A., 1326.
- 1:3-Methylethyl-*m*-diazine** and *di*-chloronitro- (PINNER), 1889, A., 1007.
- Methylethylcarboxyglutaric acids** (BISCHOFF), 1891, A., 829.
- 1-Methylethyl-dihydronaphthaquinone** (BÉHAL and AUGER), 1890, A., 388.
- Methylethyl-dihdropentene methyl ketone** (MARSHALL and PERKIN), 1890, T., 251.
- 4-Methyl-3-ethyl-dihdropyridine** (*β -dihydroacridine*) (OEHLSNER DE CONINCK), 1884, A., 1047.
- 1':3'-Methylethyl-dihydroquinoline** (FISCHER and STECHE), 1888, A., 299.
- 1-Methyl-2-ethylenetetrahydropyridine**. See Tropidine.
- Methylethylene- ψ -thiocarbamide** (GABRIEL), 1889, A., 849.
- Methylethylenetolylaminedimethyltolylammonium iodide** (HÜBNER, TÖLLE and ATHENSTÄDT), 1884, A., 1318.
- as*-Methylethylethylene**. See γ -Amylene.
- Methylethylglutaric acids**, *p*- and *meso*- (BISCHOFF), 1891, A., 829.
- 1:2-Methylethylglyoxaline** (*oxal-methyl-propylene*), synthesis of (RADZISZEWSKI), 1883, A., 729.
- 2:1-Methylethylglyoxaline** (*oxal-ethyl-ethylene*) (RADZISZEWSKI), 1883, A., 729.
- (*oxal-ethylene*), properties of (WALLACH), 1883, A., 910.
- chloro-, and its derivatives (WALLACH), 1883, A., 49.
- Methylethylglyoxime** (SCHRAMM), 1883, A., 590.
- diacetyl-derivative of (SCHRAMM), 1884, A., 52.
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- Methylethylhexahydropyridine**. See Methylethylpiperidine.
- Methylethylhexamethylene**, formation of (KIPPING and PERKIN), 1889, P., 143.
- α -iodo- (KIPPING and PERKIN), 1890, T., 23.
- 2'-Methylethylideneindole** (FISCHER), 1888, A., 284.
- 3':2'-Methylethylindazine** and **3':1'-methylethylisindazine** (FISCHER and TAFEL), 1885, A., 541, 542.
- 2':1'-Methylethylindole** (FISCHER and STECHE), 1887, A., 976.
- 2':3'-Methylethylindole** (FISCHER), 1886, A., 805; 1887, A., 149.
- p*-Methyl-1'-ethylindole** (*ethyl-p-tolindole*) and ***p*-methyl-1'-ethylindole-2'-carboxylic acid** (HEGEL), 1886, A., 552.
- Methylethylketol** (v. PECHMANN and DAHL), 1890, A., 1235.
- Methylethylketole**. See **2':1'-Methylethylindole**.

- Methylethylmaleic acid** (FITTIG and PARKER), 1892, A., 814.
- Methylethylmaleic anhydride** (BISCHOFF), 1891, A., 291; (MICHAEL and TISSOT), 1891, A., 1456.
- Methylethylmalic acid** (MICHAEL and TISSOT), 1891, A., 1455.
- Methylethylmalonic acid** (OTTO and BECKURTS), 1885, A., 754; (OTTO and RÖSSING), 1888, A., 45.
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- Methylethylnitroureacil** (LEHMANN), 1890, A., 32.
- Methylethyliso-oxazole.** amido- (BURNS), 1891, A., 889; (HANRIOT), 1891, A., 1108; 1892, A., 79.
- Methylethylloxazolone, bromo-** (HANRIOT), 1891, A., 1108; 1892, A., 79.
- 1:2-Methylethylpentamethylene** (MARSHALL and PERKIN), 1889, P., 143; 1890, T., 250.
- Methylethyl-*p*-phenylenediamine** (*p-amidoethyl-o-toluidine*) (WEINBERG), 1892, A., 1078.
- 2-Methyl-4-ethylpiperidine** (*capillidine*) (SCHULTZ), 1888, A., 64.
- 2-Methyl-5-ethylpiperidine** (*aldehyde-collidine hexahydrate; capillidine*), and its derivatives (DÜRKOPF), 1884, A., 1054; 1885, A., 817.
- 2-Methyl-6-ethylpiperidine** (SCHULTZ), 1888, A., 64.
- 4-Methyl-3-ethylpiperidine** (*β -collidine hexahydrate*) (OECHSNER DE CONINCK), 1884, A., 1048.
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- 2:5-Methylethylpiperidylalkaline.** See 5-Hydroxyethyl-2-ethylpiperidine.
- $\beta\beta$ -Methylethylpropionic acid** (*hexoic acid*) (VAN ROMBURGH), 1887, A., 228; 1888, A., 447.
- Methylethylpropylisobutylammonium chloride**, optical isomerides of (LEBEL), 1891, A., 1002.
- Methylethylpropylcarbinol** (*tert-heptylic alcohol*) (SOKOLOFF), 1888, A., 1170.
- Methylethylisopropyl-*m*-diazine**, amido- (V. MEYER), 1889, A., 578.
- α -Methylethylpropylene** (*hexylene*) (WISLICENUS), 1883, A., 967.
- Methylethylpropylic alcohol** (*heptylic alcohol*) from essence of chamomile (VAN ROMBURGH), 1887, A., 228.
- 2-Methyl-4-ethylpyridine** (*ethylpicoline*) (SCHULTZ), 1888, A., 64.
- 2-Methyl-5-ethylpyridine** (*aldehyde-collidine*) (DÜRKOPF), 1886, A., 257.
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- 2-Methyl-6-ethylpyridine** (*ethylpicoline*) (SCHULTZ), 1888, A., 64.
- 4-Methyl-3-ethylpyridine** (*β -collidine*) (HANTZSCH), 1883, A., 83; (OECHSNER DE CONINCK), 1883, A., 739.
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- 6-Methyl-4-ethylpyridine** (*α -collidine*) (WEIDEL and PICK), 1885, A., 557.
- Methylethylpyridines** (*collidines*), preparation of (MAI and ASCHOFF), 1892, A., 725.
- Methylethylpyridylalkaline.** See 2-Hydroxyethyl-5-ethylpyridine.
- 2-Methyl-1-ethylpyrrolidone-2-carbothioxyamide and -2-carboxyamide** (KÜHLING), 1890, A., 793.
- 2-Methyl-1-ethylpyrrolidone-2-carboxylic acid** (KÜHLING), 1890, A., 793.
- Methylethylquinol and its derivatives** (FIALA), 1884, A., 1138; 1886, A., 454; (NÖLTING and WERNER), 1891, A., 209.
- 3'-Methyl-2'-ethylquinoline and its salts** (DOEBNER and V. MILLER), 1884, A., 1376; (HARZ), 1886, A., 262; (ELIASBERG and FRIEDLÄNDER), 1892, A., 1107.
- 3'-Methyl-2'-ethylquinoline-1-carboxylic acid** (V. MILLER), 1890, A., 1326.
- 3-Methyl-2'-ethylquinoline-3'-carboxylic acid** (HARZ), 1886, A., 261.
- as-Methylethylsuccinic acid** (BISCHOFF), 1891, A., 829; (HELL), 1891, A., 1018.
- s-Methylethylsuccinic acid** (YOUNG), 1883, T., 180; (BISCHOFF and WALDEN), 1889, A., 959; (BISCHOFF and MINTZ), 1890, A., 743.
- Methylethylsuccinic acids** (BITSCHKOW and ZELINSKY), 1899, A., 741.
- 2'-Methyl-1'-ethyltetrahydroquinoline** (MÖLLER), 1888, A., 298.
- α -Methyl- μ -ethylthiazole** (HUBACHER), 1891, A., 220.
- μ -Methyl- α -ethylthiazole** (HANTZSCH), 1890, A., 1238; (RUBLEFF), 1891, A., 223.

- m*-Methyl-*p*-ethyltoluene (CLAUS), 1892, A., 985.
- Methylethyltriphenyl*di*thiobiuret (BILLETER and STROHL), 1888, A., 365.
- Methylethyluracil (BEHREND; HOFFMANN), 1890, A., 31.
- β -Methyl- α -ethylvalerolactone (YOUNG), 1883, T., 172, 178; A., 456.
- Methyleugenol, glycol from (WAGNER), 1892, A., 310.
- Methylisoeugenol, glycol from (WAGNER), 1892, A., 311.
- di*bromide (CIAMICIAN and SILBER), 1890, A., 967.
- nitrosite of (ANGELI), 1892, A., 447.
- Methylenchylamine (WALLACH and GRIEPENKERL), 1892, A., 1239.
- Methylflavolinium hydroxide. See 2'-Phenyl-1':4'-dimethylquinolinium hydroxide.
- Methylformanilide (PINNER), 1883, A., 1090; (NORTON and LIVERMORE), 1887, A., 1038; (BARBIER and VIGNON), 1888, A., 689; (PICTET), 1890, A., 758.
- m*-nitro- (COMSTOCK and WHEELER), 1892, A., 706.
- Methylisoformanilide (COMSTOCK), 1890, A., 1258; (COMSTOCK and KLEEBOERG), 1890, A., 1414.
- m*-nitro- (COMSTOCK and WHEELER), 1892, A., 706.
- Methylformimide hydrochloride (PINNER), 1883, A., 1089.
- Methylisoformo- α -naphthalide (COMSTOCK and WHEELER), 1892, A., 705.
- Methylformo-*p*-toluidide (BAMBERGER and WULZ), 1891, A., 1202.
- Methylisoformo-*o*- and -*p*-toluidides (COMSTOCK and CLAPP), 1892, A., 707, 708.
- Methyl-fumaramic acid and -fumarimide (GIUSTINIANI), 1892, A., 821.
- Methylfurfuraldehyde (HILL), 1889, A., 695; (MAQUENNE), 1890, A., 33.
- Methylfurfurancarboxyacetic acid. See Methronic acid.
- Methylfurfurine (BIELER and TOLLENS), 1890, A., 1105.
- α -Methylglutaric acid (*butanedicarboxylic acid*) (KILIANI), 1883, A., 962.
- thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097.
- β -Methylglutaric acid (*butanedicarboxylic acid*; *ethylidenediacetic acid*) (KOMNENOS), 1884, A., 422; (AUWERS, KÖBNER and v. MEYENBURG), 1892, A., 41.
- β -Methylglutaric acid (*butanedicarboxylic acid*; *ethylidenediacetic acid*), *di*bromo- (AUWERS and BERNHARDI), 1891, A., 1191.
- α -Methylglyceric acid and its salts (MELIKOFF), 1885, A., 651.
- β -Methylisoglyceric acid (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 296.
- β -Methylglycidamide, *trichloro*- (LEVY, WHITE and CURCHOD), 1890, A., 234.
- β -Methylglycidic acid and its salts (*propyleneoxygen-carboxylic acid*) (MELIKOFF), 1884, A., 1301; 1885, A., 650.
- additive product of methylamine and (FIELINSKY), 1885, A., 752.
- β -Methylisoglycidic acid (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 296.
- γ -Methylglycidic acid. See Butylglycidic acid.
- Methylglycocine. See Sarcosine.
- Methylglyoxalbisphenylhydrazone (v. PECHMANN and WEHSARG), 1887, A., 1104; 1889, A., 47.
- Methylglyoxal- $\alpha\omega$ -hydrazoxime (v. PECHMANN and WEHSARG), 1889, A., 47.
- 1-Methylglyoxaline (*oxal-methylglyline*) (WALLACH), 1883, A., 50; (WOHL and MARCKWALD), 1889, A., 867.
- formula of (JAPP), 1883, T., 198.
- action of ethylic chloracetate on (RUNG and BEHREND), 1892, A., 1493.
- mercaptan and methylic sulphide (WOHL and MARCKWALD), 1889, A., 866.
- 2-Methylglyoxaline (*glyoxal-ethylglyline*; *p*-oxal-methylglyline) (WALLACH), 1883, A., 50, 911; (RADZISZEWSKI), 1883, A., 308.
- synthesis of (JAPP), 1883, T., 17; 198; (RADZISZEWSKI), 1883, A., 728.
- tribromo*- (WALLACH), 1883, A., 911.
- 2-Methylglyoxaline-4:5-dicarboxylic acid (MAQUENNE), 1890, A., 1439.
- Methylglyoxal- $\alpha\omega$ -methylphenylhydrazoxime (v. PECHMANN and WEHSARG), 1889, A., 48.
- Methylglyoxalosotetrazone (v. PECHMANN), 1888, A., 1288.
- Methylglyoxime (SCHOLL), 1891, A., 287.
- action of nitric peroxide on (SCHOLL), 1891, A., 316.
- diacetyl-derivative of (SCHRAMM), 1884, A., 52.

- Methylsynglyoximecarboxylic acid** (HANTZSCH), 1892, A., 1176.
- Methylglyoximecarboxylic acids**, dissociation constants of (HANTZSCH and MIOLATI), 1892, A., 1268.
- Methylguanecil** (CURATOLO), 1891, A., 539.
- Methylguvacine** (JAHNS), 1892, A., 740.
- Methylheptonic acid and lactone** (FISCHER), 1890, A., 599.
- Methylheptose** (FISCHER), 1890, A., 599.
- Methylhesperidin** (WILL), 1885, A., 906.
- Methylhexadecylbenzenes** (*hexadecyltoluenes*, *o*-, *m*- and *p*-) (KRAFFT and GÖTTIG), 1889, A., 129.
- p*-Methylhexadecylbenzene, amido-** (KRAFFT and GÖTTIG), 1889, A., 130.
- p*-Methylhexadecylbenzenesulphonic acid**, sodium salt of (KRAFFT and GÖTTIG), 1889, A., 130.
- p*-Methylhexadecylphenetol and methylhexadecylphenol** (KRAFFT and GÖTTIG), 1889, A., 130.
- α -Methylhexahydroanthracene** (GRAEBE and JUILLARD), 1888, A., 156.
- 1-Methylhexahydronicotinic acid** (JAHNS), 1892, A., 740.
- Methylhexamethylene methyl ketone** (FREER and PERKIN), 1888, T., 213.
- Methylhexamethylene-mono- and -dicarboxylic acids** (FREER and PERKIN), 1888, T., 207.
- o*-Methylhexamethylenemethylcarbinol** (KIPPING and PERKIN), 1889, P., 144.
- Methylhexane.** See Heptane.
- Methylhexylcarbonyl cyanide** (FREUND and SCHÖNFELD), 1892, A., 132.
- Methylhexyldiphenolmethane** (DIANINI), 1889, A., 1187.
- β -Methylhexylethylene** (FREUND and SCHÖNFELD), 1892, A., 133.
- 1:2-Methylhexylglyoxaline** (*oxalantihydrantihyline*) (KARCY), 1887, A., 911.
- Methylhexylhydroxypyrotartaric acids** α - and β -, salts of (FETIG and REICHMANN), 1890, A., 593; (FETIG and REICHMANN), 1890, A., 593, 594.
- Methylhexylparaconic acids**, α - and β - (FETIG and REICHMANN), 1890, A., 593, 594.
- α -Methylhomo- α -phthalimide and α -phthalonitrile** (GABRIEL), 1887, A., 1112.
- α -Methylhomopiperidic acid** (ASCHAN), 1891, A., 1246.
- α -Methylhomoterephthalic acid** (ERRERA), 1891, A., 1021.
- Methylhydantoin** (*lactylcarbamide*) (FRANCHIMONT and KLOBBER), 1889, A., 1143.
- nitro-** (FRANCHIMONT and KLOBBER), 1888, A., 1180; 1889, A., 125, 1143.
- γ -Methylhydantoin** (GUARESCHI), 1892, A., 828.
- Methyl-hydrastallylamide and -hydrastisoamylamide** (FREUND and HEIM), 1891, A., 92, 93.
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- γ -Methylhydrindene- β -carboxylic acid** (ROSER), 1887, A., 836; 1888, A., 1303.
- α -Methylhydrindone and its phenylhydrazone** (YOUNG), 1892, A., 1221.
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- β -Methylhydroxylamine** (DITTRICH), 1891, A., 317; (HOFFMANN and MEYER), 1892, A., 291; (KIRPAL), 1892, A., 1067.
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- 3'-**Methylindene** (ROSER), 1888, A., 1303; (v. MILLER and ROHDE), 1890, A., 1138.
- 2'-**Methylindene-3'-carboxylic acid** and its derivatives (ROSER), 1887, A., 836; 1888, A., 1303.
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- 3-**Methylindole** (*tolindole*) (RASCHEN), 1887, A., 956.
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- 1'-Methylindole-3'-carboxylic acid**, synthesis of (FISCHER and HESS), 1884, A., 1181.
- 2'-Methylindole 3'-carboxylic acid** (CIAMICIAN and MAGNANINI), 1888, A., 483, 958.
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- Methylindonaphthene**. See *Methylindene*.
- p-Methylindophenine** (MEYER), 1884, A., 48.
- 3'-Methylindoxyl** (*scatoxyl*), occurrence of, in human sweat (KAST), 1887, A., 1133.
- 3'-Methylindoxylsulphuric acid** (MESTER), 1888, A., 174.
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- p-Methylisatin** and its oxime (MEYER), 1884, A., 48.
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- p-Methyl- ψ -isatin**, derivatives of (DUISBERG), 1885, A., 544.
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- p-Methyl- ψ -isatinimide** (*p-methylimesatin*) (MEYER), 1884, A., 48.
- p-Methylisatoic acid** and its derivatives (PANAOTOVIĆ), 1885, A., 666; 1886, A., 361.
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- γ_1 -Methyljulolidine** (REISSERT), 1892, A., 498.
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- 3-Methyl-2'-ketodihydroquinazoline** (SODERBAUM and WIDMAN), 1890, A., 178.
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- 1':4':2'-Methyllepdone** (1':4'-*dimethylquinolone*) (KNORR and ANTRICK), 1885, A., 274; (KNORR), 1887, A., 159.
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- Methyl- ψ -lutidostyrene** ("methyl- ψ -lutidostyrol"). See 1:2:4-Trimethylpyridone.
- β -Methylmalic acid** (WISLIGENUS), 1892, A., 589, 963.
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- m*-Methylmandelic acid and *m*-methylmandelonitrile** (BORNEMANN), 1884, A., 1162.
- Methylmercaptopmethylthiazoline.** See Methylsulphydromethylthiazoline.
- Methylmethronic acid** (DIETZEL), 1889, A., 593.
- α -Methyl- μ -methylamidothiazole** (TRAUMANN), 1889, A., 415.
- Methylmethylenetribromopyrogallol** (ROSER), 1890, A., 530.
- Methylmethylene-gallic acid and-gallicarboxylic acid** (ROSER), 1890, A., 530.
- Methylmethylenetrihydroxyphthalic acid** (ROSER), 1890, A., 530.
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- Methylmorphine.** See Codeine under Alkaloids.
- Methylmorpholine and methylmorpholinemethylammonium hydroxide** (KNORR), 1889, A., 1218, 1219.
- Methyl- α - and - β -naphthafurfuran-carboxylic acids** (HANTZSCH and PFEIFFER), 1886, A., 717.
- α -Methylnaphthalene** (BOESSNECK), 1883, A., 1135.
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- Methylnaphthalenes, α - and β -** and their derivatives (SCHULZE), 1884, A., 1183, 1184; (WICHELHAUS), 1892, A., 492.
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- 2'-Methyl- α -naphthaquinoline (α -naphthaquinaldine)** and its derivatives (DOEBNER and V. MILLER), 1884, A., 1375.
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- 4'-Methyl- β -naphthaquinoline** (REED), 1887, A., 682.
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- 2'-Methyl- α -naphthindole** (SCHLIEFER), 1887, A., 964.
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- 2'-Methyl- β -naphthindole** (SCHLIEFER), 1887, A., 154.
- 3'-Methyl- β -naphthindole-2'-acetic acid** (STECHE), 1888, A., 285.
- Methyl- α -naphthol, β -nitroso-** (GOLD-SCHMIDT and SCHMID), 1885, A., 1238.
- β -Methyl- α -naphthols [2:1- and 2:4-]** (FITTIG), 1888, A., 252; (FITTIG and LIEBMANN), 1890, A., 775.
- Methyl- α - and - β -naphthols, trinitro-** (STAEDEL), 1883, A., 863.
- Methylnarceine, and its salts** (CLAUS and RITZFELD), 1885, A., 997.
- Methylnitramine** (FRANCHIMONT and KLOBBE), 1889, A., 492, 1144.
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- 2'-Methyloctohydro- β -naphthaquinolines (*ar*- and *ac*-octohydro- β -naphthaquinaldines)** and their compounds (BAMBERGER and STRASSER), 1891, A., 1513.
- 2:5-Methyloctylthiophen and its bromo-derivative** (v. SCHWEINITZ), 1886, A., 536.

- Methylænanthaldoxime** (GOLDSCHMIDT and ZANOLI), 1892, A., 1436.
- Methyl-orange**. See Helianthin.
- Methyloxalacetic acid** (ARNOLD), 1888, A., 1179.
- Methyloxalacetophenylimide** (WISLICIENS and SATTLER), 1891, A., 903.
- Methyloxamic acid** (HANTZSCH), 1885, A., 398.
- Methyloxanilide** (NORTON and LIVERMORE), 1887, A., 1038.
- Methyliso-oxazoles, α - and γ -** (CLAISEN), 1892, A., 1073.
- Methyloxazolic picrate** (GABRIEL), 1889, A., 1134.
- Methyliso-oxazolone** (HANTZSCH), 1891, A., 740.
- Methyloxindole, 3'-mono- and di-bromo-, and 3'-dichloro-** (COLMAN), 1888, P., 96; 1889, T., 3, 4, 7.
- p-Methyloxindole, nitroso-** (MEYER), 1884, A., 48.
- Methyloxyanthranol** (LIEBERMANN), 1888, A., 715.
- Methyloxymethylenetribromopyrogallol** (SEMMLER), 1892, A., 311.
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- Methyloxyquinazoline**. See Hydroxymethylquinazoline and Oxymethylquinazoline.
- Methyloxyquinizine**. See Phenylmethylpyrazolone.
- isoMethylpæonol** (TAHARA), 1892, A., 846.
- Methylparaconic acid** (FITTIG and FRÄNKEL), 1890, A., 584.
- dichloro-** (FITTIG and MILLER), 1890, A., 587.
- trichloro-** (FITTIG), 1888, A., 252; (FITTIG and MILLER), 1890, A., 586.
- Methylpentadecylacetylène** (*acétolécine*) (KRAFFT and REUTER), 1892, A., 1163.
- Methylpentamethylene methyl ketone** (COLMAN and PERKIN), 1888, T., 198.
- Methylpentamethylene-mono- and -dicarboxylic acids** (COLMAN and PERKIN), 1888, T., 193, 198.
- Methylpentamethylenemethylcarbinol** (MARSHALL and PERKIN), 1889, P., 113; 1890, T., 215.
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- β -Methyl-pentathienone and -pentathiophen** (KRECKELER), 1887, A., 239.
- Methylphenanthridines, 3- and 5-** (PICTET and ERLICH), 1892, A., 197.
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- Methylphenanthroline and its derivatives** (SKRAUP and FISCHER), 1885, A., 392; (NÖLTING and TRAUTMANN), 1891, A., 327; 1892, A., 729.
- Methylphenanthrolines, isomeric** (GERDEISEN), 1889, A., 520.
- Methylphenazine and its salts** (VAN ROMBURGH), 1886, A., 546.
- Methylphenolsulphonic acid** (HAITZINGER), 1883, A., 990.
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- Methyl- α -phenotetrazine** (HEMPEL), 1890, A., 613.
- Methyl- α -phenotriazine** (BISCHLER), 1890, A., 149.
- p-bromo-** (BISCHLER and BRODSKY), 1890, A., 152.
- Methylphenol**. See Cresol.
- Methylphenylamine**. See Methylaniline.
- Methylphenylpropionic acid**. See Tolypropionic acid.
- Methylphenyl-**. See also Phenylmethyl-.
- α -Methylphthalic acid** [m.p. 152°] (NIEMENTOWSKI), 1892, A., 607.
- Methylphthalic acids** [m.ps. 144° and 124°], (YOUNG), 1892, A., 1221.
- Methylphthalic anhydride** (YOUNG), 1892, A., 1221.
- Methylphthalide, di- and tetra-chloro-** (ZINCKE and COOKSEY), 1890, A., 786.
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- Methylphthalimide** [m.p. 182°] and its derivatives (GRAEBE and PICTET), 1884, A., 1019; 1889, A., 141.
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- Methylphthalimidine** (GRAEBE and PICTET), 1889, A., 141; (BARBERI), 1889, A., 253.
- Methylphthalol- ψ -cumidamide** (FRÜHLICH), 1884, A., 1319.
- α -Methylphthalodiamide** (NIEMENTOWSKI), 1892, A., 607.
- Methylpiaselenole** (HINSBERG), 1889, A., 785.
- chloro-** (HINSBERG), 1890, A., 973.
- Methylpiazothiole** (HINSBERG), 1890, A., 161.
- Methylpicrazide** (V. BRÜNING), 1890, A., 23.
- Methyl- α -pipecoline** (1:2-dimethyl-piperidine) (LADENBURG), 1883, A., 1154; (MERLING), 1891, A., 1508.

- Methylpipercolylalkine.** See Hydroxy-ethylmethylpiperidine.
- 2-Methylpiperidine** (LADENBURG), 1887, A., 740.
- 1-Methylpiperidine** (LADENBURG), 1883, A., 1151.
- 2-Methylpiperidine and its derivatives** (LADENBURG), 1884, A., 1051; 1887, A., 64, 283; (LADENBURG and ROTH), 1885, A., 557.
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- 3-Methylpiperidine and its derivatives** (LADENBURG), 1884, A., 760; 1887, A., 64; (HESEKIEL), 1885, A., 812; 1886, A., 257; (STOEHR), 1888, A., 63; 1892, A., 629.
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- 4-Methylpiperidine** (LADENBURG), 1888, A., 499.
- 3-Methylpiperidone** (ASCHAN), 1891, A., 1216.
- Methylpiperyl-azone and -tetrazone derivatives** (KNORR), 1884, A., 468.
- Methylpropargylamine** (PAAL and HERMANN), 1890, A., 230.
- Methylisopropenylcarbinol** (KONDAKOFF), 1886, A., 137; 1888, A., 125.
- Methylpropionylacetonitrile** (v. MEYER), 1889, A., 114; (BOUVEAULT), 1891, A., 51.
- Methyl-*n*- and -*iso*-propylacetic acids.** See Hexoic acids.
- Methylisopropylacetone.** See Methyl amyl ketone.
- Methylpropylacetoximic acid.** See Methylpropylglyoxime.
- Methylpropylacetylene**, conversion of, into butylacetylene (FAWORSKY), 1888, A., 1169.
- Methylpropylacrylic acid** (REFORMATSKY), 1891, A., 169.
- Methylpropylallylcarbinol**, glycerol from (REFORMATSKY), 1890, A., 121.
- Methylpropylaniline and its derivatives** (CLAUS and HIRZEL), 1887, A., 134.
- Methylpropylbenzene.** See Cymene.
- 1-Methyl-3-propyl-2-benzoic acid** (*p*-propyl-*o*-toluic acid) (KREYSLER), 1885, A., 1055.
- 1-Methyl-3-propyl-4-benzoic acid** (*cynglycarboxylic acid*) (CLAUS and CROPP), 1886, A., 463.
- Methylpropylcarbinol** (*sec-amyl alcohol*) (MARKOWNIKOFF), 1884, A., 1280.
- Methylpropylcarbinol** (*sec-amyl alcohol*), formation of (MARSHALL and PERKIN), 1891, T., 874.
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- o*-Methyl-*p*-propylcoumarin** (v. PECHMANN and WELSH), 1884, A., 1346.
- p*-Methylpropyldihydroxydiphenylic sulphide** (TASSINARI), 1887, A., 808.
- β -Methylpropylethylenelactic acid** (REFORMATSKY), 1891, A., 169.
- Methylisopropylethylenic glycol** (FOSSEK), 1884, A., 833; (SWOBODA and FOSSEK), 1891, A., 31.
- Methylpropylethylenic oxide** (ELTEKOFF), 1883, A., 567.
- s*-Methylpropylglutaric acids** (BISCHOFF and TIGERSTEDT), 1890, A., 1103.
- 1:2-Methylpropylglyoxaline** (*oxal-methylbutylglyne*) (RIEGER), 1889, A., 119.
- 1:2-Methylisopropylglyoxaline** (*oxal-methylisobutylglyne*) (RIEGER), 1889, A., 120.
- 2:1-Methylpropylglyoxaline** (*oxal-propylethylyne*), synthesis of (RADZISZEWSKI), 1883, A., 729.
- Methylpropylglyoxime** (SCHRAMM), 1884, A., 52.
- α -Methylpropyl- β -hydroxybutyric acid**, decomposition of, by heat (JONES), 1885, A., 376.
- Methylisopropylmalonic acid** (VAN ROMBURGH), 1887, A., 232.
- Methylpropylphenanthrene.** See Retene.
- o*-Methyl-*p*-propylphenylmethylketone** (CLAUS and CROPP), 1886, A., 463.
- Methylpropylpinacolone** (SZYMANSKI), 1886, A., 784.
- Methylpropylpyridine** (3:5-*dimethyl-2-ethylpyridine*) (WAAGE), 1884, A., 172; (DÜRKOPF and GÖTTSCHE), 1890, A., 795, 1002.
- Methylpropylquinol** (FIALA), 1884, A., 1138.
- 5:2-Methylpropylquinone and its oxime**, 6-iodo- (KEHRMANN), 1889, A., 993.
- Methylpropylthiocarbamide** (HECHT), 1890, A., 476.
- Methylpropylthiocarbamilide** (BILLETTER and STROHL), 1888, A., 364.
- Methylprotocotoin** (CIAMICIAN and SILBER), 1892, A., 63.
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- Methylpurin**, derivatives of (FISCHER), 1884, A., 996.
- 3-Methylpyrazolone** (CURTIUS and JAY), 1889, A., 393.
- 2-Methylpyridine.** See α -Picoline.

- 3-Methylpyridine. See β -Picoline.
 4-Methylpyridine. See *p*-Picoline.
 2-Methylpyridine-4-carboxylic acid (*α -picoline-4-carboxylic acid*) (BOTTINGER), 1884, A., 758.
 2-Methylpyridine-5-carboxylic acid (DÜRKOPF), 1885, A., 817.
 4-Methylpyridine-2-carboxylic acid (BACHÉR), 1889, A., 163.
 4-Methylpyridine-3-carboxylic acid (*homonicotinic acid*) (OECHSNER DE CONINCK), 1883, A., 739; 1885, A., 671.
 3-Methylpyridinedicarboxylic acid [COOH=5:6 or 2:5] (DÜRKOPF and SCHLAUCK), 1888, A., 608; (DÜRKOPF and GÖTTSCHE), 1890, A., 1002.
 2-Methylpyridine-3:5-dicarboxylic acid (*methylnicotinic acid*) (WEBER), 1887, A., 1117.
 2-Methylpyridine-4:6-dicarboxylic acid (*urilonic acid*) (ALTAR), 1887, A., 379.
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 1-Methyl- α -pyridone (*orynathylpyridine*) (V. PECHMANN and BALTZER), 1892, A., 209.
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 2-Methylpyrrolidine (TAFEL), 1887, A., 463; (TAFEL and NEUGEBAUER), 1889, A., 1015.
 3-Methylpyrrolidine (TAFEL), 1887, A., 463; (OLDACH), 1887, A., 735.
 2-Methylpyrrolidone (TAFEL), 1887, A., 463; 1889, A., 961.
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 2-Methylpyrrolidone-2-carboxylamide (KÜHLING), 1890, A., 793.
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 1-Methylpyrroline, tetrabromo- (DE VARDA), 1889, A., 57.
 2-Methylpyrroline (DENNSTEDT and LEHNE), 1889, A., 1209.
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 1-Methylpyrrolineketonedicarboxylic acid (ZANETTI), 1890, A., 1431.
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 2-Methylpyrrol styryl ketone (DENNSTEDT and LEHNE), 1889, A., 1209.
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- 1-Methylquinoline (*o-toluquinoline*), 3-bromo-, and its derivatives (ALT), 1889, A., 1214.
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 2-Methylquinoline (*m-toluquinoline*) (MAGNANINI), 1890, A., 1322.
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 1'-Methylquinoline, 4'-bromo-4-nitro- (CLAUS and DECKER), 1889, A., 728.
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- 4'-Methylquinoline (*lepidine*; *cincholepidine*), derivatives (HEYMANN and KOENIGS), 1888, A., 852.
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- 4'-Methylquinoline, 2'-amido- (KLOTZ), 1888, A., 1113; (EPHRAIM), 1892, A., 1488.
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- 2-Methylquinoline quinoneoximes (NÖLTING and TRAUTMANN), 1891, A., 326; 1892, A., 727, 728, 729.
- 2'-Methylisoquinoline (KRAUSS), 1891, A., 86.
- 4'-Methylisoquinoline (LE BLANC), 1888, A., 1114.
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- 2'-Methylquinoline-3-acrylic acid (V. MILLER and KINKELIN), 1886, A., 265.
- 2'-Methylquinolineacrylic acids (*quin-aldineacrylic acids*) [m.p.s. 246° and 184°] (ECKHARDT), 1889, A., 521.
- 2'-Methylquinoline-2-aldehyde (*quin-aldinealdehyde*) (ECKHARDT), 1889, A., 522.
- 2'-Methylquinoline-3-aldehyde (V. MILLER and KINKELIN), 1886, A., 265.
- 1-Methylquinoline-4-carboxylic acid (LELLMANN and AET), 1887, A., 502.
- 2'-Methylquinoline-1-, -2- and -3-carboxylic acids and their salts (DOEBNER and V. MILLER), 1884, A., 1290.
- 2'-Methylquinoline-3'-carboxylic acid and its ethylic salt (FRIEDLÄNDER and GÖHRING), 1883, A., 1119.
- 2'-Methylquinoline-4'-carboxylic acid (*aniluridonic acid* and its derivatives) (BOTTINGER), 1884, A., 329; (BEYER), 1886, A., 630.
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- 2'-Methylquinoline-4'-carboxylic acid (*aniluridonic acid*), oxidation of (BOTTINGER), 1891, A., 1092.
- 3'-Methylquinoline-2'-carboxylic acid (DOEBNER and V. MILLER), 1884, A., 1376.
- 2'-Methylquinoline-3:4'-dicarboxylic acid (V. MILLER), 1890, A., 1325.
- 1-Methylquinoline-3-sulphonic acid (HERZFELD), 1884, A., 1198; (LELLMANN and ZIEMSEN), 1891, A., 1257.
- 1-Methylquinoline-4-sulphonic acid (HERZFELD), 1884, A., 1199.
- 3-Methylquinoline-1-sulphonic acid (FISCHER and WITTMACK), 1884, A., 1052; (HERZFELD), 1884, A., 1199.
- 2'-Methylquinoline-1-sulphonic acid (DOEBNER and V. MILLER), 1884, A., 1373.
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- 2'-Methylquinoline-2-sulphonic acid, constitution of (RICHARD), 1891, A., 329.
- 2'-Methylquinoline-2- or -4-sulphonic acid (DOEBNER and V. MILLER), 1884, A., 1373.
- 2-Methylquinoline-3-sulphonic acid (DOEBNER and V. MILLER), 1884, A., 1373.
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- 2'-Methylquinoline-3'-sulphonic acid, preparation of (ANON.), 1885, A., 945.
- 2'-Methylquinoline-4'-sulphonic acid (HERZFELD), 1884, A., 1199.
- 4'-Methylquinoline-1(?) -sulphonic acid (WEIDEL and HAZURA), 1885, A., 562.
- 4'-Methylquinoline-3-sulphonic acid (BUSCH and KOENIGS), 1890, A., 1434.
- Methylquinolinesulphonic acids, 1- and 3- (LELLMANN and ZIEMSEN), 1891, A., 1257.
- 1'-Methyl-2'-quinolone, bromo- and 4-nitro- derivatives of (DECKER), 1892, A., 879.
- 2'-Methylquinolyl benzoate (CONRAD and LIMPACII), 1888, A., 1109.
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- 4'-Methylquinolyl ethylic sulphide, mercaptan and *disulphide* (ROOS), 1888, A., 501, 500.
- 2'-Methylquinolyl-3'-ethylene-2'-quinoline (BULACH), 1889, A., 528; (WARIANTAN), 1891, A., 330.
- Methylquinone. See Toluquinone.
- p*-Methylquinophthalone (JACOBSEN and REIMER), 1884, A., 335.
- 1-Methylquinoxaline (*abulquinoraline*) (HINSBERG), 1884, A., 1053.

- 2-Methylquinoxaline, derivatives of (NEMENOWSKI), 1889, A., 1065.
- 3-Methylquinoxaline-2':3'-dicarboxylic acid (HINSBERG), 1885, A., 910.
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- Methylrosindone (FISCHER and HEPPE), 1890, A., 909.
- Methylrosindulone (KEHRMANN and MESSINGER), 1891, A., 1213.
- "Methylsaccharin" (ANON.), 1890, A., 382; (RANDALL), 1891, A., 1228; (WEBER), 1892, A., 1092.
- o*-Methylsalicylamidoxime. See *o*-Methoxybenzylamidoxime.
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- o*-Methylsalicylaldehyde. See *o*-Methoxybenzaldehyde.
- Methylsaligenylcamphor (HALLER), 1891, A., 1499.
- Methylscopoletic acid and methylscopoletin (TAKAHASHI), 1889, A., 256.
- Methylselenazole, amido- (HOFMANN), 1889, A., 726.
- α -Methyl-selenazylamine and -selenazylamine- β -carboxylic acid (HOFMANN), 1889, A., 726, 727.
- Methylsemicarbazide (v. BRÜNING), 1890, A., 23.
- Methylstilbazole. See Styrylmethylpyridine.
- Methylstilbazoline (*phenethylmethylpiperidine*) (BACHÉR), 1889, A., 163.
- p*-Methylstilbene (ANSCHÜTZ), 1885, A., 1065.
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- p*-Methylstilbenedisulphone (OTTO and DAMKÖHLER), 1885, A., 263.
- Methylstrychnic acid (TAFEL), 1892, A., 1012.
- methiodide (TAFEL), 1891, A., 1263.
- Methylisostrychnic acid methiodide (TAFEL), 1891, A., 1264.
- Methylstrychnine (TAFEL), 1890, A., 1447; 1891, A., 1263.
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- Methylstyrene. See Tolylacetylene.
- Methylsuccinamic dimethylamide (KÖRNER and MENOZZI), 1890, A., 870.
- Methylsuccinamide (*pyrotartarumide*) (HENRY), 1885, A., 886.
- Methylsuccinic acid (*hydroxytetrac acid; pyrotartaric acid*) (GORBOFF), 1888, A., 1179; (CLOEZ), 1890, A., 739; (BISCHOFF and v. KÜHLBERG), 1890, A., 742; (WALDEN), 1891, A., 1188.
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- Methylsuccinimide (BREIT and BOEDDINGHAUS), 1889, A., 1061.
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- Methylsulphone-*o*-amidobenzamide (FRANKE), 1892, A., 335.
- Methylsulphonic acid. See Methanesulphonic acid.
- Methylsulphonylthiocarbamide, *tri*-chloro- (MCGOWAN), 1887, T., 669.
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- Methyltarconic acid (ROSER), 1888, A., 1116; 1890, A., 532.
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- ψ -Methyltarconic acid (ROSER), 1890, A., 532.
- β -Methyl-taurine and -taurocarbamic acid (GABRIEL), 1890, A., 128.
- Methyltetrahydrocinchoninic anhydride (WEIDEL and HAZURA), 1885, A., 561.
- Methyltetrahydrofurfuran (FREER and PERKIN), 1887, T., 836; A., 33; (LIPP), 1890, A., 20.

- 2'-Methyltetrahydro- β -naphthaquinoline (BAMBERGER and MÜLLER), 1891, A., 1511.
- Methyltetrahydronicotinic acid (JAHNS), 1892, A., 740.
- " α -Methyltetrahydroperichinaldimidazole" (BAMBERGER and WULZ), 1891, A., 1256.
- o*-Methyltetrahydrophenyl methyl ketone (KIPPING and PERKIN), 1889, P., 144.
- o*-Methyltetrahydrophenylmethylcarbinol (KIPPING and PERKIN), 1889, P., 144.
- 1-Methyl- Δ^2 -tetrahydropicoline (LIPP), 1892, A., 1243.
- 2-Methyl- Δ^2 -tetrahydropyridine (LIPP), 1887, A., 277; 1892, A., 1243.
- Methyltetrahydropyridylacetylene (EICHENGRÜN and EINHORN), 1891, A., 67.
- Methyltetrahydropyridylethylene, ω -bromo-(EICHENGRÜN and EINHORN), 1891, A., 66.
- Methyltetrahydropyridyl- β -hydroxypropionic acid. See Ecgonine.
- 1-Methyltetrahydroquinoline, and 3-amido- (BAMBERGER and WULZ), 1891, A., 1253, 1254.
- 3-bromo- (ALT), 1889, A., 1214.
- 2'- and 3-Methyltetrahydroquinoline and 1-amido- (BAMBERGER and WULZ), 1891, A., 1254, 1255, 1256.
- 1'Methyltetrahydroquinoline (*kairoline*) and its derivatives (HOFFMANN and KOENIGS), 1883, A., 1144; (FEER and KOENIGS), 1885, A., 1245.
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- 2'Methyltetrahydroquinoline and its derivatives (DOEBNER and v. MILLER), 1884, A., 183; (MÖLLER), 1888, A., 297.
- condensation of, with *p*-nitrobenzaldehyde (v. MILLER and PLÖCHL), 1891, A., 1102.
- 4'-Methyltetrahydroquinoline (KNORR and KLOTZ), 1887, A., 278.
- 1-Methyltetrahydroquinoline-3-azobenzenesulphonic acid (BAMBERGER and WULZ), 1891, A., 1254.
- 3-Methyltetrahydroquinoline-1-azobenzenesulphonic acid (BAMBERGER and WULZ), 1891, A., 1255.
- 1'Methyltetrahydroquinoline 2-carboxylic acid (*kairoline-2-carboxylic acid*) (FISCHER and KÖRNER), 1884, A., 1197.
- 1-Methyltetrahydroquinoline-3-sulphonic acid (LELLMANN and ZIEMSEN), 1891, A., 1257.
- Methyltetrahydroquinolinesulphonic acids, 1- and 3- (LELLMANN and ZIEMSEN), 1891, A., 1257.
- β -Methyltetramethylenediamine (OLDACH), 1887, A., 735.
- Methyltetramethylenic dibromide and action of sodium on (COLMAN and PERKIN), 1888, T., 190, 201.
- Methylthalline, and its salts (SKRAUP), 1886, A., 80.
- Methylthebain sulphate, physiological activity of (STOCKMAN and DOTT), 1891, A., 762.
- Methylthialdine (MARCKWALD), 1886, A., 1005.
- α -Methylthiazole (HANTZSCH and ARAPIDES), 1888, A., 573; (POPP), 1889, A., 725.
- μ -Methylthiazole (HANTZSCH), 1888, A., 574; 1889, A., 724.
- Methylthiazole, *meso*amido-. See Thiocyanopropimine.
- α -Methylthiazole- β -carboxylic acid, bromo-, chloro- and iodo- (WOHMANN), 1891, A., 226.
- μ -Methylthiazole- β -carboxylic acid (RUBLEFF), 1891, A., 224.
- μ -Methylthiazole-dicarboxylic acid (RUBLEFF), 1891, A., 224.
- Methylthiazolehydroxamic oxide (ZÜRCHER), 1889, A., 725.
- meso*-Methylthiazoline (GABRIEL), 1891, A., 817.
- n*-Methylthiazoline, μ -imido- (NÄF), 1891, A., 1515.
- n*-Methylthiazolinehydrazine (NÄF), 1891, A., 1516.
- Methylthiazylacetic acid (STEUDE), 1891, A., 743.
- Methylthiazylamine and α -methylthiazylaniline (TRAUMANN), 1889, A., 414, 415.
- 2:5-Methylthienyl methyl ketone (*methylacetothienone*) and its derivatives (DEMUTH), 1886, A., 228, 871.
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- Methylthienylglyoxylic acids, $\alpha\alpha$ - and $\alpha\beta$ - (RUFFI), 1887, A., 804.
- α -Methyl-*mono*- and *di*-thiobiurets (HECHT), 1892, A., 703.
- Methylthiocarbamide, polymeric (v. HOFMANN), 1892, A., 798.
- Methylthiocarbamide-allylic and -benzylic cyanides (HECHT), 1890, A., 1104.
- Methylthiocarbamide-methylic and -propylic cyanides (HECHT), 1890, A., 1103.
- Methylthiocarbimide, compound of, with aldehydammonia (DIXON), 1892, T., 517.

- α -Methylthiocoumarin** (ALDRINGEN), 1892, A., 329.
- Methylthioformaldine** (WOHL), 1887, A., 27.
- Methylthiohydantoin** (ANDREASCH), 1886, A., 227; (MARCKWALD, NEUMARK and STELZNER), 1892, A., 151.
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- Methylthiophen, thio-** (*thienyl methyl thioether*). See Methoxythiophen, thio-.
- α -Methylthiophen** (*thiotolene*) (MEYER), 1884, A., 586; 1885, A., 887; (MEYER and KREIS), 1884, A., 1132; (EGLI), 1885, A., 766; (KUES and PAAL), 1886, A., 537.
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- β -Methylthiophen** (MEYER and KREIS), 1884, A., 1131; (EGLI), 1885, A., 766.
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- Naphthoylformic acid**. See Naphthylglyoxylic acid.
- Naphthoylhydroxamic acids**, α - and β - (EKSTRAND), 1887, A., 840.
- Naphthoynaphastyrils**, α - and β - (EKSTRAND), 1889, A., 53.
- α -Naphthoyl- α -naphthylenylamidoxime**
(EKSTRAND), 1887, A., 373.
- β -Naphththiamide** (BAMBERGER and BOCKMANN), 1887, A., 675.
- Naphthyl benzyl ketone** (PÄPCKE), 1888, A., 702.
- Naphthyl ethyl ether**. See Ethoxynaphthalene.
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- α -Naphthyl glycidyl ether** (LINDEMANN), 1891, A., 1199.
- Naphthyl mercaptans**, α - and β -, amido- (V. HOFMANN), 1887, A., 839.
- α -Naphthyl methyl ketone** and its derivatives (PAMPEL and SCHMIDT), 1887, A., 252; (CLAUS and FEIST), 1887, A., 271.
- β -Naphthyl methyl ketone** (MÜLLER and V. PECHMANN), 1890, A., 52; (SCHWEITZER), 1891, A., 729.
- Naphthyl methyl ketones** (ROUX), 1888, A., 1306; (CLAUS and TERSTEEGEN), 1891, A., 214.

- Naphthyl methyl ketones**, action of phosphoric chloride on (LEROY), 1892, A., 495.
- α -Naphthyl phenyl ketone** and its derivatives (VINCENT and ROUX), 1884, A., 609; (ELBS), 1887, A., 943; (ROSPENDOWSKI), 1886, A., 625; (ELBS and STEINKE), 1886, A., 947; (KEGEL), 1888, A., 1307. boiling point of (SCHWELTZER), 1891, A., 1240. sodium derivative of (BECKMANN and PAUL), 1892, A., 170.
- β -Naphthyl phenyl ketone** (VINCENT and ROUX), 1884, A., 609; (ROSPENDOWSKI), 1886, A., 625; (KEGEL), 1888, A., 1307.
- α -Naphthylacetamide** and **α -naphthylacetoneitrile** (BOESSNECK), 1883, A., 808.
- α -Naphthylacetic acid** (BOESSNECK), 1883, A., 808.
- β -Naphthylacetic acid** (CLAUS and TERSTEEGEN), 1891, A., 215; (SCHWELTZER), 1891, A., 730.
- Naphthylacetylenes**, α - and β -, and their derivatives (LEROY), 1892, A., 495, 496.
- α -Naphthylacrylic acid** (*α -naphthacinnamic acid*) (BRANDIS), 1889, A., 1200.
- β -Naphthylalkylamines**, reduction of (BAMBERGER and MÜLLER), 1889, A., 888.
- Naphthyl- β -allylsemithiocarbazide** (AVENARIUS), 1891, A., 550.
- α -Naphthylamidoacetic acid** (*naphthylglycine*) (BISCHOFF and NAST-VOGEL), 1889, A., 1015; (JOLLES), 1889, A., 1199; (FORTE), 1890, A., 900. calcium salt of (MAUTHNER and SUIDA), 1891, A., 39.
- β -Naphthylamidoacetic acid** (JOLLES), 1889, A., 1199.
- Naphthylamidoacetic acids**, derivatives of (JOLLES), 1889, A., 1199; (BISCHOFF and HAUSDÖRFER), 1890, A., 1309; 1892, A., 1341.
- α -Naphthylamidoacetic naphthylamide** (BISCHOFF and HAUSDÖRFER), 1892, A., 1341.
- β -Naphthylamidoacetic naphthylamine** (JOLLES), 1889, A., 1199.
- α -Naphthylamidoacetyl- α -naphthylamineacetic acid** (BISCHOFF and HAUSDÖRFER), 1892, A., 1341.
- Naphthylamidobenzoic acids**, *m*-amido- and *m*-nitro-, *p*- α - and β - (HEIDEN-SEBEN), 1891, A., 307.
- Naphthylamidobiazolones**, α - and β - (FREUND), 1892, A., 510, 508.
- Naphthylamidobutyric acids**, α - and β - (BISCHOFF and MINTZ), 1892, A., 1338.
- Naphthylamidoisobutyric acids**, derivatives of (BISCHOFF and MINTZ), 1892, A., 1342.
- α -Naphthylamidocyanuric chloride** (FRIES), 1886, T., 314.
- β -Naphthylamidocyanuric chloride** (FRIES), 1886, T., 740.
- Naphthylamidoethylphthalimides**, α - and β - (NEWMAN), 1891, A., 1208.
- Naphthylamidopropionic acids**, α - and β - (BISCHOFF and HAUSDÖRFER), 1892, A., 1337.
- Naphthylamidosuccinic acids**, α - and β - (HELL and POLIAKOFF), 1892, A., 860.
- Naphthylamidosuccinic dinaphthylamide** (HELL and POLIAKOFF), 1892, A., 860.
- α -Naphthylamido- ψ -thiobiazolone** (HELL and POLIAKOFF), 1892, A., 510.
- Naphthylamidothiobiazolones**, α - and β - (FREUND), 1892, A., 511, 508.
- Naphthylamine** (*amidonaphthalene*), chlorotrinitro- [m.p. 252°] (CLEVE), 1890, A., 626.
- α -Naphthylamine**, manufacture of (WITT), 1887, A., 1048. refractive power of, at different temperatures (PERKIN), 1892, T., 303. action of picric chloride on (TURPIN), 1891, T., 716. citraconate (MORAWSKI and GLÄSER), 1888, A., 1096. citrate (HECHT), 1887, A., 154. hydrochloride, action of fuming sulphuric acid on (MAUZELIUS), 1888, A., 375. phenate (DYSON), 1883, T., 468. picrate (SMOLKA), 1886, A., 454. platinothiogyanate (GUARESCHI), 1892, A., 287.
- α -Naphthylamine**, 3'-bromo- (MELDOLA), 1885, T., 508; P., 72. 4-bromo- (GUARESCHI), 1884, A., 843; (MELDOLA), 1885, T., 508; P., 72. 4'(?)-bromo- (GUARESCHI), 1884, A., 843. 2:4-di-bromo- (MELDOLA), 1885, T., 510; P., 72. 4:2-bromonitro- (MELDOLA), 1885, T., 500; P., 71; (ARMSTRONG and ROSSITER), 1891, P., 186; (MELDOLA and DESCH), 1892, T., 765. 2-chloro- and 2:4-dichloro- (CLEVE), 1887, A., 495.

- α -Naphthylamine**, 1':4'-*dichloro-* (SCHWECHTEN), 1890, A., 620.
 2':4'-*dichloro-* (ERDMANN), 1889, A., 265; (SCHWECHTEN), 1890, A., 620.
 2-nitro-, and its derivatives (LELLMANN), 1884, A., 751; (LELLMANN and REMY), 1886, A., 624.
 2,4-dinitro- (WITT), 1886, A., 947.
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- β -Naphthylamine**, action of diazo-compounds on (LAWSON), 1885, A., 802, 1238.
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- 8-Naphthylamine**, *diamido-*, hydrochlorides of (LOEWE), 1890, A., 1424.
 1-bromo- (MELDOLA), 1885, T., 508; P., 72; (LELLMANN and SCHMIDT), 1888, A., 289.
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 1:3'-*di*bromo- (LAWSON), 1885, A., 1239; (ARMSTRONG and ROSSITER), 1891, P., 32; (CLAUS and PHILIPSON), 1891, A., 461.
 1:4-*di*bromo- (MELDOLA), 1885, T., 497; P., 72; 1886, P., 173; (ARMSTRONG and ROSSITER), 1891, P., 186.
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- β -Naphthylamine**, 4:1-bromido- (MELDOLA and DESCH), 1892, T., 767; P. 141.
 1-chloro- (CLEVE), 1887, A., 961.
 1':4'-*dichloro-* (CLAUS and PHILIPSON), 1891, A., 462.
 1:4-chlorobromo- (MELDOLA and DESCH), 1892, T., 768.
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 1':4'-*dinitro-* (ONUFROWICZ), 1891, A., 321.
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- Naphthylamines**, primary and secondary (BENZ), 1883, A., 594.
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- Naphthylaminealloxan** (PELLIZZARI), 1888, A., 142, 681.
- α -Naphthylaminebenzylidenesulphonic acid**. See α -Naphthyl- ω -imidotoluenesulphonic acid.
- α -Naphthylaminebisdiazobenzene** (KROHN), 1889, A., 152.
- Naphthylaminebisazobenzenes**, α - and β - (NIETZKI and DIESTERWEG), 1888, A., 1082, 1083.
- α -Naphthylamine-3:1'-disulphonic acid** [ϵ] (ARMSTRONG and WYNNE), 1890, P., 15; (BERNTHSEN), 1890, A., 386; (SCHULTZ), 1890, A., 388.
- α -Naphthylamine-4:1'-disulphonic acid** (*Schöllkopf acid*) (BERNTHSEN), 1890, A., 386.
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- α -Naphthylamine-4:2'-disulphonic acid** (*Dahl No. III.*), constitution of (ARMSTRONG and WYNNE), 1890, P., 16.
- α -Naphthylamine-4:3'-disulphonic acid** (*Dahl No. II.*), constitution of (ARMSTRONG and WYNNE), 1890, P., 125.
- β -Naphthylamine-1:3'-disulphonic acid** (FORSLING), 1889, A., 276.
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- β -Naphthylamine-1:3'-disulphonic acid** (*Amido-G.-acid*) (LANDSHOFF), 1885, A., 312.
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- β -Naphthylamine-3:2'-disulphonic acid** (*Cassella's δ -acid*), constitution of (ARMSTRONG and WYNNE), 1890, P., 127.
- β -Naphthylamine-3:3'-disulphonic acid** (*Amido-R.-acid*), constitution of (ARMSTRONG and WYNNE), 1890, P., 12.
- β -Naphthylamine-4:2'-disulphonic acid** (*Andresen's acid*) (SCHULTZ), 1890, A., 388; (ARMSTRONG and WYNNE), 1891, A., 27.
- α -Naphthylaminophthalein** (VANNI), 1886, A., 68.
- α -Naphthylamine-3'-sulphonamide** (*naphthionamide*) (EKBOM), 1891, A., 573.
- α -Naphthylamine-4-sulphonamide** (CLEVE), 1890, A., 635.
- α -Naphthylamine-4'-sulphonamide** (EKBOM), 1890, A., 994.
- Naphthylaminesulphonic acid**, iodo- (OSTERMAYER), 1885, A., 673.
- α -Naphthylaminesulphonic acid** (*δ -Hirsch acid*) (HIRSCH), 1888, A., 1200.
- α -Naphthylamine-1'-sulphonic acid** (ERDMANN), 1889, A., 156.
- α -Naphthylamine-2-sulphonic acid** (CLEVE), 1892, A., 345.
- α -Naphthylamine-2'-sulphonic acid [δ]** (CLEVE), 1889, A., 155.
2-chloro- (CLEVE), 1892, A., 1479.
- α -Naphthylamine-3-sulphonic acid [γ]** (CLEVE), 1886, A., 1037; 1889, A., 154.
- α -Naphthylamine-4-sulphonic acid** (*naphthionic acid*) (WITT), 1886, A., 364; (ERDMANN), 1889, A., 156.
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- α -Naphthylamine-4-sulphonic acid**, 4'-nitro- (NIETZKI and ZÜBELEN), 1889, A., 514.
- α -Naphthylamine-4'-sulphonic acid** (*naphthalidene-sulphonic acid*) (WITT), 1886, A., 554; (LANGE), 1888, A., 160; (ERDMANN), 1889, A., 156.
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- β -Naphthylamine-1'-sulphonic acid** (*Badische-acid*) (FORSLING), 1886, A., 890; 1887, A., 962.
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- β -Naphthylamine-2'-sulphonic acid** [δ], and its derivatives BAYER) and DUISBERG), 1887, A., 732; (WEINBERG), 1888, A., 160.
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- 1-chloro- (ARMSTRONG and WYNNE), 1889, P., 36, 48.
- β -Naphthylamine-3'-sulphonic acid** (*Brönnner's acid*) (LANDSHOFF), 1885, A., 312; (FORSLING), 1887, A., 375.
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- 1-chloro- (ARMSTRONG and WYNNE), 1889, P., 36, 48.
- β -Naphthylamine-4'-sulphonic acid** (FORSLING), 1887, A., 963.
- 1-chloro- (ARMSTRONG and WYNNE), 1889, P., 36, 48.
- β -Naphthylaminesulphonic acids**, properties of the four (GREEN), 1889, T., 36.
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- β -Naphthylamine-3:1':3'-trisulphonic acid** (LANDSHOFF), 1885, A., 312.
- α -Naphthylaspartic acid** (HELL and POLIAKOFF), 1892, A., 869.
- β -Naphthylbenzoglycosylamine, and its hydrochloride** (GRIESS), 1883, A., 669.
- β -Naphthylbenzylamine** (KOHLE), 1888, A., 50.
- α -Naphthylbenzylcarbamide** (KÜHN and RIESENFELD), 1892, A., 312.
- β -Naphthylbenzylideneamine** (CLAISEN), 1887, A., 494.
- Naphthylbenzylthiocarbamides, α - and β -** (DIXON), 1891, T., 558, 559.
- $\alpha\beta$ -Naphthylcarbamide** (KÜHN and LANDAU), 1890, A., 634.
- α -Naphthylcarbinol (*α -naphthalenylglycolic alcohol*)** (BAMBERGER and LODTER), 1888, A., 375.
- β -Naphthylcarbinol** (BAMBERGER and BOECKMANN), 1887, A., 675.
- Naphthylcarbinylamine.** See Naphthylmethylamine.
- α -Naphthylcyanamide** (TIEMANN), 1889, A., 1165; (VOLTMER), 1891, A., 559.
- α -Naphthyl-diethylamine** (FRIEDLÄNDER and WELMANS), 1889, A., 151.
- β -Naphthyl-diethylamine, hydrogenation of** (BAMBERGER and WILLIAMSON), 1889, A., 1000.
- α -Naphthyl-diethylaminocarboxylic acid** (FRIEDLÄNDER and WELMANS), 1889, A., 152.
- α -Naphthyl-diethylmethylamine and its derivatives** (FRIEDLÄNDER and WELMANS), 1889, A., 150.
- α -Naphthyl-dimethylaminocarboxylic acid** (FRIEDLÄNDER and WELMANS), 1889, A., 151.
- Naphthyl-dimethylaminesulphonic acid** (FRIEDLÄNDER and WELMANS), 1889, A., 151.
- Naphthyl-dimethylpropionic acid** (GUCCI and GRASSI-CRISTALDI), 1892, A., 871.
- Naphthyl-2:5-dimethylpyrrolines, 1: α - and 1: β -** (KNORR), 1887, A., 275.
- 1: β -Naphthyl-2:5-dimethylpyrrolidine-3:4-dicarboxylic acid** (KNORR), 1885, A., 555.
- 1: α -Naphthyl-2:5-dimethylpyrrolidine-3:4-dicarboxylic acid** (KNORR), 1887, A., 275.
- Naphthyl-diphenylamine** (HERZ), 1890, A., 1410.
- Naphthyl-diphenylamine-blue, constitution of** (HAUSDÖRFER), 1890, A., 1308.
- β -Naphthyl-diphenylcarbamide** (KYM), 1890, A., 633.
- Naphthyl-2:5-diphenylpyrrolines, 1: α - and 1: β -** (PAAL and BRAIKOFF), 1890, A., 263, 264.
- Naphthylene mercaptan** (EBERT and KLEINER), 1891, A., 460.
- "Naphthylenes"** (MARKOWNIKOFF and OGLOBLIN), 1884, A., 1276.
- Naphthylene- $\alpha\beta$ -benzenyldiamine** (KOLL), 1891, A., 1239.
- Naphthylenediallylthiocarbamide** (LELMANN), 1886, A., 625.
- 1:1'-Naphthylenediamine** (*diamido-naphthalene*) (HINSBERG), 1889, A., 717.
- 1:2-Naphthylenediamine** (LAWSON), 1885, A., 1238.
- action of formic acid on (FISCHER and WRESZINSKI), 1892, A., 1496.
- hydrogenation of (BAMBERGER and SCHIEFFELIN), 1889, A., 892.
- 1:3-Naphthylenediamine** (URBAN), 1887, A., 674.
- 1:4-Naphthylenediamine** (GRIESS), 1883, A., 183; (WITT), 1887, A., 1048.
- hydrogenation of (BAMBERGER and SCHIEFFELIN), 1889, A., 892.
- 2:1'-Naphthylenediamine** (FRIEDLÄNDER and SZYMANSKI), 1892, A., 1234.
- 2:2'-Naphthylenediamine, preparation of** (BAMBERGER and SCHIEFFELIN), 1889, A., 893.
- 2:4'-Naphthylenediamine** (FRIEDLÄNDER and SZYMANSKI), 1892, A., 1233.
- Naphthylenediamines, substituted** (ANNAHEIM), 1887, A., 839.
- 1:2-Naphthylenediamine-3:1'-disulphonic acid, derivatives of** (BERNTHSEN), 1891, A., 216.
- 1:2-Naphthylenediamine-2', -3'- and -4'-sulphonic acids** (WITT), 1889, A., 274.
- $\alpha\beta$ -Naphthylenedimethoxyphthalimidone** (BISTRZYCKI and CYBULSKI), 1892, A., 1249.
- Naphthylenedinaaphthylsulphoxide** (EKSTRAND), 1885, A., 170.
- Naphthylenediphenylthiocarbamide** (BAMBERGER and SCHIEFFELIN), 1889, A., 892.
- 1:2-Naphthylene-ethenylamidine and its salts** (PRAGER), 1885, A., 1239; (LELMANN and REMY), 1886, A., 624.
- 4-bromo- and bromonitro- (PRAGER), 1885, A., 1239.
- $\beta\beta$ -Naphthylene-ethenyldiamine** (FISCHER and HEPP), 1887, A., 729.
- Naphthylene-ethyldiamine** (KOCK), 1888, A., 469.
- Naphthylene-ethyldiamine hydrochloride** (KOCK), 1888, A., 469; (BAMBERGER and GOLDSMIDT), 1891, A., 1239.

- 1:2-Naphthylene-methenylamidide and-methylmethenylamidide (FISCHER and WRESZINSKI), 1892, A., 1496.
- β -Naphthylenetoluquinoxaline (HINSBERG), 1885, A., 909.
- amido- (WITT), 1886, T., 400.
- Naphthylenic dihydrosulphides and dithiocyanate (EBERT and KLEINER), 1891, A., 460; (BRAUN and EBERT), 1892, A., 1471.
- α -Naphthylethyldiphenyldiamine (BOESSNECK), 1883, A., 808.
- α -Naphthylethylamine (BAMBERGER and GOLDSCHMIDT), 1891, A., 1238.
- β -nitroso- (HARDEN), 1890, A., 631.
- p -nitroso- (KOCK), 1888, A., 469.
- β -Naphthylethylamine (HENRIQUES), 1885, A., 168.
- α -nitroso- (FISCHER and HEPP), 1887, A., 1114; 1888, A., 461.
- α -Naphthylethylene (*naphthacinnamene*) (BRANDIS), 1889, A., 1200.
- chloro- (LEROY), 1892, A., 495.
- β -Naphthylethylene, chloro- (LEROY), 1892, A., 495.
- α -Naphthylethylenediamine (NEWMAN), 1891, A., 1208.
- β -Naphthylethylhydrazine (HAUFF), 1890, A., 61.
- β -Naphthylethylidenehydrazine (SCHLIEPER), 1887, A., 153.
- Naphthylethylxanthic acids, sulpho- α - and - β -, potassium salts of (LEUCKART), 1890, A., 606.
- Naphthylformamides, α - and β - (TOBIAS), 1883, A., 326.
- Naphthylglycocine. See Naphthyl-amidoacetic acid.
- β -Naphthylglycollamide (SCHWEITZER), 1891, A., 729.
- α -Naphthylglycollic acid (*naphthoargyelic acid*) (BOESSNECK), 1883, A., 808; (SPICA), 1887, A., 495; (BRANDIS), 1889, A., 1200; (SCHWEITZER), 1891, A., 730.
- β -Naphthylglycollic acid (SPICA), 1887, A., 495; (CLAUS and TERSTEEGEN), 1891, A., 215; (SCHWEITZER), 1891, A., 729.
- α -Naphthylglycollic nitrile (BRANDIS), 1889, A., 1200.
- Naphthylglycuronic acids. α - and β - (LESSNIK and NENCKI), 1886, A., 823.
- 1- α -Naphthylglyoxaline and μ -mercaptan and μ -methylsulphide (MARCKWALD), 1892, A., 1331.
- α -Naphthylglyoxylamide (BOESSNECK), 1883, A., 595.
- α -Naphthylglyoxylic acid (*naphthoylformic acid*) (BOESSNECK), 1883, A., 595, 808; (CLAUS and FEIST), 1887, A., 271.
- β -Naphthylglyoxylic acid (CLAUS and TERSTEEGEN), 1891, A., 214.
- α -Naphthylhydrazine (FISCHER), 1886, A., 554.
- indoles from (SCHLIEPER), 1887, A., 963.
- β -Naphthylhydrazine (FISCHER), 1886, A., 555; (HAUFF), 1890, A., 61.
- naphthylthiocarbinolate (HAUFF), 1890, A., 61.
- β -Naphthylhydrazinelevulinic acid (STECHE), 1888, A., 284.
- α -Naphthylhydrazinepyruvic acid (SCHLIEPER), 1887, A., 963.
- β -Naphthylhydrazinepyruvic acid (SCHLIEPER), 1887, A., 153.
- α -Naphthylhydrazone, thionyl- (MICHAELIS and RUHL), 1892, A., 1324.
- β -Naphthyl benzenesulphonate (TRAUBE), 1891, A., 569.
- benzoate and acetate, α -nitro-, reduction of (BÖTTCHER), 1885, A., 659.
- benzoate and acetate, α -nitro-, molecular transformations of (BÖTTCHER), 1883, A., 1113.
- Naphthyl benzylic oxides, α - and β - (STAEDEL), 1883, A., 586.
- carbamates, α - and β - (GATTERMANN), 1888, A., 575.
- carbonates, α - and β - (LÖWENBERG), 1886, A., 789.
- β -Naphthyl cinnamate, decomposition of, by heat (ANSCHÜTZ), 1885, T., 899; A., 1065.
- Naphthyl cyanurates, α - and β - (OTTO), 1887, A., 1034.
- ethylic carbonate (BENDER), 1887, A., 37.
- α -oxalates, α - and β - (STAEUB and SMITH), 1884, T., 303, 304.
- phenylcarbamates, α - and β - (SNAPE), 1885, T., 776; (LEUCKART and SCHMIDT), 1885, A., 1224.
- sulphide, dinitro- (EKSTRAND), 1885, A., 171.
- disulphides, sulpho- α - and - β -, potassium derivatives of (LEUCKART), 1890, A., 606.
- α -tolylcarbamate (GATTERMANN and CANTZLER), 1892, A., 832.
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- 3:4-Nitramidomethoxybenzene (SCHEIDEL), 1886, A., 1046.
- 3':4'-Nitramido-2'-methylquinoline (CONRAD and LIMPACH), 1888, A., 1111.
- Nitramido- α -naphthoic acid (EKSTRAND), 1886, A., 948.
- Nitramido- β -naphthoic acid [m.p. 235°] (EKSTRAND), 1891, A., 79.
- Nitr- p -amido- α -nitrostyrene (FRIEDLÄNDER and LAZARUS), 1885, A., 1139.
- tri Nitramidophenetol (KÖHLER), 1884, A., 1161.
- Nitramidophenol. See Phenol.
- Nitramidophenylisobutyric acid (EDELEANU), 1888, T., 560.
- Nitramidophenyl carbonates (LÖWENBERG), 1886, A., 789.
- Nitramidophenyl- α - and - β -naphthylamines (HEIM), 1888, A., 488, 1096.
- 3:5- di Nitr-4-amido- β -phenylpropionic acid (STOEHR), 1884, A., 1350.
- di Nitramidophenyl- p -toluidine (ERNST), 1891, A., 300.
- p -Nitr- p -amidophenylurethane (HAGGER, 1885, A., 159; (VAN ROMBURGH), 1892, A., 712.
- 3:6:2:5- di Nitr- di amidoquinone (NIETZKI), 1887, A., 930.
- o -Nitramidostilbene (BISCHOFF), 1888, A., 1094.
- Nitramidotetrahydroxybenzene (NIETZKI), 1884, A., 58.
- 6:3-Nitramido- p -toluic acid (FILETI and CROSA), 1889, A., 495.
- Nitramido- p -toluic acids, 2:6- and 3:6- (CLAUS and BEYSEN), 1892, A., 177.
- Nitramidotoluquinol (KEHRMANN and BRASCH), 1889, A., 970.
- Nitramine of the quinoline group, attempted synthesis of (SIMON-THOMAS), 1892, A., 725.
- Nitramines (FRANCKMONT and KLOBBER), 1889, A., 492.
- from alkyl aromatic diamines (VAN ROMBURGH), 1888, A., 1079.

- Nitramines**, preparation of, from nitrophenols (BARR), 1888, A., 822.
- 4-Nitr-3'-amyl-2'-hexylquinoline** (V. MILLER), 1891, A., 1104.
- Nitraniic acid** (2:5-dinitro-3:6-dihydroxyquinone) (NIETZKI), 1883, A., 465; (LEVY and JEDLICKA), 1889, A., 390.
- from chloranil (NEF), 1887, A., 926.
- formation of (NIETZKI and PREUSSER), 1887, A., 574.
- preparation of (NIETZKI), 1884, A., 58; (NIETZKI and BENCKISER), 1885, A., 779.
- constitution of (HANTZSCH), 1886, A., 1021; (NIETZKI), 1887, A., 134.
- potassium salt of (NIETZKI and BENCKISER), 1885, A., 779.
- salts of (NIETZKI), 1883, A., 465.
- o-Nitraniidoacetic acid** (PLÖCHL), 1886, A., 351.
- m-Nitraniidoacetic acid** (PLÖCHL and LOË), 1885, A., 899.
- 3:4-Nitraniidobenzanilide** (GROHMANN), 1891, A., 305.
- 5:2-Nitraniidobenzanilide** (GROHMANN), 1892, A., 326.
- m-Nitr-o- and -p-anilidobenzenesulphonic acids** (FISCHER), 1892, A., 332, 331.
- m-Nitr-o-anilidobenzoic acid** (SCHÖPFF), 1891, A., 304.
- m-Nitr-p-anilidobenzoic acid** (SCHÖPFF), 1890, A., 374.
- m-Nitr-o- and -p-anilidobenzonitriles** (SCHÖPFF), 1891, A., 305.
- m-Nitr-o- and -p-anilidobenzophenones** (SCHÖPFF), 1892, A., 336.
- Nitraniidoisobutyric acid** (EDELEANT), 1888, T., 560.
- m-Nitraniido-p-hydroxybenzoic acid** (SCHÖPFF), 1890, A., 375.
- o-Nitraniido-α-naphthaquinone** (LEICESTER), 1890, A., 1446.
- Nitraniidonaphthaquinoneanilide** (ZINCKE and KEGEL), 1889, A., 266.
- o-Nitr-β-anilidopropionic acid**, and its derivatives (EINHORN), 1884, A., 304.
- p-Nitr-β-anilidopropionic acid**, and its derivatives (BASLER), 1884, A., 1172.
- triNitr-3-anilidotoluene, 2:4:6-(trinitrotolylamine)** (BENTLEY and WARREN), 1890, A., 486; (JACKSON and BENTLEY), 1892, A., 1218.
- Nitraniidotoluquinone** (LEICESTER), 1890, A., 1446.
- 2:4-diNitraniidotolylamine** (ERNST), 1891, A., 300.
- Nitraniiline**. See Aniline.
- Nitraniinesulphonic acid**. See Aniline-sulphonic acid.
- diNitransidine** (WENDER), 1890, A., 752.
- p-Nitransisoil**, reduction of (GATTERMANN and RITSCHKE), 1890, A., 1120.
- Nitransisoils, o- and p-**, preparation of (WILLGERODT and FERKO), 1886, A., 345.
- ε-diNitransisoil** (WENDER), 1890, A., 752.
- p-Nitransisylmethylnitrosamine** (BEST), 1890, A., 608.
- Nitranthracenes, mono-, and di-** (PERKIN), 1889, P., 13.
- Nitranthranilic acid**, bromine derivatives of (DORSCH), 1886, A., 359.
- Nitranthraquinone** (ROEMER), 1883, A., 71.
- diNitranthraquinone** (ROEMER), 1883, A., 737.
- action of concentrated sulphuric acid on (LIEBERMANN and HAGEN), 1883, A., 72; (LIEBERMANN), 1883, A., 597; (LIFSCHÜTZ), 1884, A., 1187.
- α-Nitranthraquinonesulphonic acid** and its derivatives (CLAUS), 1884, A., 1040.
- action of strong sulphuric acid on, and the constitution of the latter (LIFSCHÜTZ), 1884, A., 1189.
- Nitranthrol** (PERKIN and MACKENZIE), 1892, T., 869.
- Nitranthrone**, and the action of alcoholic potash on (PERKIN and MACKENZIE), 1892, T., 865, 868.
- Nitrantipyryr** (KNORR), 1884, A., 1378; (JANDRIER), 1892, A., 730.
- diNitrapiene** (CIAMICIAN and SILBER), 1890, A., 1295.
- Nitrates**. See Nitric acid under Nitrogen.
- Nitration** (MEYER), 1889, A., 387.
- with nitric peroxide (ARMSTRONG and ROSSITER), 1891, P., 91.
- Nitratopurpleorhodium chloride, dithionate and nitrate** (JÜRGENSEN), 1887, A., 114.
- Nitratropine** (EINHORN and FISCHER), 1892, A., 1014.
- Nitrazo-**. See Azo-.
- Nitrazo-compounds, secondary** (MELDOLA), 1883, T., 434.
- reduction of, by alcoholic ammonium sulphide (WILLGERODT), 1890, A., 1116.
- products of the reduction of (JANOVSKY), 1885, A., 789, 1131; (JANOVSKY and ERB), 1885, A., 894.
- Nitre**. See Potassium nitrate.
- Nitrethane**. See Ethane.
- Nitrethenyl-o-amidobenzamide** (DEHOFF), 1890, A., 802; 1891, A., 84; (THIEME), 1891, A., 917.

- Nitroethoxybenzamide** (THIEME), 1891, A., 916.
- Nitroethoxybenzoic acid** (THIEME), 1891, A., 916.
- Nitroethoxybenzonitrile** (LOBRY DE BRUYN), 1885, A., 657.
- di***Nitroethoxydiphenyl** (HIRSCH), 1889, A., 511.
- di***Nitroethoxydiphenylamine** (SCHÖPFF), 1889, A., 773.
- di***Nitroethoxyethylhydroquinoline** (KOHN), 1886, T., 509.
- 1-Nitr- β -ethoxynaphthalene**, and action of ammonia on (WITTKAMPF), 1884, A., 1036.
- 1':4'-*di*Nitr- β -ethoxynaphthalene** (ONUFROWICZ), 1891, A., 321.
- m*-**Nitroethoxyphenyl/bromonitroethane** (FRIEDLÄNDER and LAZARUS), 1885, A., 1138.
- Nitr-3-ethoxytoluene**, 4:6-*di*- and 2:4:6-*tri*- (STAEDEL and KOLB), 1891, A., 187.
- p*-**Nitroethylacetanilide** (NÖLTING and COLLIN), 1884, A., 1013.
- Nitroethylacetothienone** (SCHLEICHER), 1886, A., 227.
- m*-**Nitroethylaceto-*p*-toluidide** (NIE-MENTOWSKI), 1887, A., 938.
- o*-**Nitroethylaniline** (HEMPEL), 1889, A., 600; 1890, A., 611.
- di***Nitroethylaniline** (HEMPEL), 1889, A., 600.
- m*-**Nitroethylbenzaldoximes**, stereo-isomeric (GOLDSCHMIDT and KJELLIN), 1891, A., 1478.
- Nitroethylisobenzaloximes**, *m*- and *p*- (GOLDSCHMIDT and KJELLIN), 1891, A., 1478, 1477.
- m*-**Nitroethylbenzenylamidine** (LOSSEN), 1892, A., 52.
- p*-**Nitroethylbenzenyloxime nitrite** (WEISE), 1890, A., 46.
- Nitr-*p*-ethylbenzoic acid** and its salts (ASCHENBRANDT), 1883, A., 320.
- m*-**Nitr- α -ethylcinnamaldehyde** (v. MILLER and ROHDE), 1889, A., 984.
- di***Nitroethylenecarbamide** (FRANCHIMONT and KLOBBE), 1888, A., 1180.
- tetra***Nitroethylenic bromide** (*dibromotetranitrethane*) (LOSANITSCH), 1883, A., 564; (VILLIERS), 1884, A., 33.
- Nitroethylenic glycol**, magnetic rotatory power of (PERKIN), 1889, T., 681, 726.
- di***Nitroethylhydro-*p*-coumaric acid** (STOHR), 1884, A., 1350.
- Nitroethylic alcohol** (DEMUTH and MEYER), 1889, A., 366; 1890, A., 857.
- sodium salt of (DEMUTH and MEYER), 1890, A., 858.
- Nitroethylic chloride** (DEMUTH and MEYER), 1890, A., 858.
- di***Nitroethylenephthalide** (GABRIEL), 1886, A., 620.
- tri***Nitroethyl- α - and - β -naphthols** (STAEDEL), 1883, A., 863.
- p*-**Nitroethylphenylnitrosamine** (MELDOLA and STREATFIELD), 1886, T., 631.
- m*-**Nitroethyl-*p*-toluidine** (NÖLTING and STRICKER), 1886, A., 544; (NÖLTING and AET), 1888, A., 274.
- Nitric acid**, anhydride, oxide and peroxide. See under Nitrogen.
- Nitric organism**. See Microbes.
- Nitrides**, action of hydroxyhydrocarbon derivatives on (VIDAL), 1891, A., 1003.
- Nitrification** in presence of copper and other metals (KAPPEL), 1883, A., 286.
- Nitrification** as applied to agriculture. See under Agricultural Chemistry.
- Nitrile bases**, formation of, from organic acids and amines (BERNTSEN), 1883, A., 1099.
- Nitriles** (MILLER), 1889, A., 254.
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- formation of (MICHAEL and JEAN-PRÊTRE), 1892, A., 1094.
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- ketonic, action of aromatic amines on (BOUVEAULT), 1891, A., 51.
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- from aromatic formamides (GASIOROWSKI), 1885, A., 772.
- from phosphates of the aromatic series (KREYSLER), 1885, A., 1055.
- formation of, in oxidations with nitric acid (HELL and KITROSKY), 1891, A., 812.
- preparation of (KRÜSS), 1884, A., 1314.
- synthesis of (BOUVEAULT), 1891, A., 41.
- synthesis of unsaturated (FIQUET), 1892, A., 1340.
- refractive powers of (COSTA), 1892, A., 757.
- action of, on organic acids (COLBY and DODGE), 1891, A., 409.
- action of boron fluoride on (PATEIN), 1891, A., 1441.

- Nitriles**, action of hydroxylamine on (TIEMANN), 1884, A., 734.
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- Nitriles**, chloro-, volatility of (HENRY), 1885, A., 1044.
- Metanitriles** (STAEDEL), 1883, A., 323; (WALLACH), 1883, A., 577.
- Paranitriles** (MÖHLAU), 1883, A., 342.
- Nitriiotriphenylmethane**. See Phenyl-acridine.
- Nitrites and hyponitrites**. See Nitrous and Hyponitrous acids under Nitrogen.
- Nitrobarbituric acid** (CERESOLE), 1883, A., 913.
- Nitrobenzaldehyde**. See Benzaldehyde.
- Nitrobenzaldoximes**. See Benzaldoxime.
- m-Nitrobenzamide**, silver derivative of (TAFEL and ENOCH), 1890, A., 973.
- m-Nitro-m-benzamidobenzamide** (SCHULZE), 1889, A., 779.
- Nitrobenzene**. See Benzene.
- Nitrobenzeneazo-**. See Benzeneazo-.
- Nitrobenzene-p-diazopiperidide** (WALLACH), 1887, A., 131.
- Nitrobenzenehomo-o-phthalopropyl-imide** (LE BLANC), 1889, A., 256.
- m-Nitrobenzenesulphinic acid** (LIMPRICHT), 1887, A., 723.
- 2:4-di-Nitrobenzenesulphonic acid** (WILLGERODT and MOHR), 1885, A., 665; 1886, A., 1030.
- tri-Nitrobenzenesulphonic acid** (WILLGERODT), 1885, A., 1232.
- m-Nitrobenzenylamidine** (TAFEL and ENOCH), 1890, A., 973.
- m-Nitrobenzenylamidoxime** and its derivatives (SCHÖPFF), 1885, A., 896, 1217.
- p-Nitrobenzenylamidoxime** (WEISE), 1890, A., 44.
- p-Nitrobenzenylamidoxime-ethylidene** (WEISE), 1890, A., 46.
- p-Nitrobenzenylazoximeacetylenyl** (WEISE), 1890, A., 46.
- m-Nitrobenzenylazoximebenzenyl** and its derivatives (SCHÖPFF), 1885, A., 897, 1217.
- p-Nitrobenzenylazoximebenzenyl** (WEISE), 1890, A., 45.
- m-Nitrobenzenylazoxime-ethenyl** (SCHÖPFF), 1885, A., 897.
- p-Nitrobenzenylazoxime-ethenyl** (WEISE), 1890, A., 45.
- m-Nitrobenzenylazoxime-m-nitrobenzenyl** (STIEGLITZ), 1890, A., 256.
- m-Nitrobenzenyldioxytetrazotic acid** (LOSSEN and NEUBERT), 1891, A., 1040.
- p-Nitrobenzenylimidoximecarbonyl** (WEISE), 1890, A., 45.
- Nitrobenzidine**, *m-m* and *anti*- (TÄUBER), 1890, A., 782.
- d-Nitrobenzidine** (V. BANDROWSKI), 1888, A., 286.
- m-di-Nitrobenzidine-m-sulphonic acid** (ZEHR), 1891, A., 313.
- Nitrobenzil** and its dioximes (HAUSMANN), 1890, A., 624.
- iso-di-Nitrobenzil**, reduction of (GOLUBEFF), 1885, A., 660.
- m-Nitrobenzimidoeethyl ether** (TAFEL and ENOCH), 1890, A., 973.
- p-Nitrobenzoxylamide** (HAFNER), 1889, A., 982; 1890, A., 486.
- Nitrobenzobromamides**, *o*-, *m*- and *p*- (HOOGWERFF and VAN DORP), 1889, A., 982.
- m-Nitrobenzoic acetic anhydride** (GREENE), 1890, A., 53.
- o-Nitrobenzoic acid**, derivatives of (BISCHOFF and RACH), 1885, A., 263.
- Nitrobenzoic acids**, *o*-, *m*- and *p*-, conversion of the three nitranilines into (SANDMEYER), 1885, A., 981.
- m-Nitrobenzoic anhydride** (SCHULZE), 1889, A., 779.
- p-Nitrobenzoic sulphinide** (NOYES), 1886, A., 804.
- o-Nitrobenzonitrile** (MEYER), 1886, A., 63.
- m-Nitrobenzonitrile** (GABRIEL), 1883, A., 916; (SCHÖPFF), 1885, A., 896.
- Nitrobenzophenone**. See Benzophenone.
- p-Nitrobenzophenylhydrazide** (HAUSKNECHT), 1889, A., 507.
- p-Nitrobenzo-p-toluidide** (GATTERMANN and NEUBERG), 1892, A., 839.

- p*-Nitrobenzoylacetetic acid and its derivatives (PERKIN and BELLENOT), 1884, A., 1023; 1885, A., 794; 1886, T., 440; P., 193.
- o*-Nitrobenzoylacetone (FISCHER and KUZEL, 1884, A., 66; (GEVEKOH), 1884, A., 445.
- p*-Nitrobenzoylcarbinol (ENGLER and ZIELKE), 1889, A., 505.
- α -Nitro- β -benzoylnaphthol, molecular transformation of (BÖTTCHER), 1883, A., 1113.
- m*-Nitrobenzoylpiperidine and its derivatives (SCHOTTEN), 1888, A., 1105.
- Nitrobenzoylresorcinol (ERRERA), 1886, A., 51.
- p*-Nitrobenzoyl-tetramethylene- and -trimethylene-carboxylic acids (PERKIN and BELLENOT), 1885, A., 795.
- Nitrobenzyl ether, *o*-, *m*- and *p*- (ERRERA), 1889, A., 248.
- tri*-Nitrobenzyl methyl ketone (DITTRICH), 1890, A., 1419.
- p*-Nitrobenzylacetamide (AMSEL and V. HOFMANN), 1886, A., 698; (HAFNER), 1889, A., 982; 1890, A., 486.
- o*-Nitrobenzylacetanilide (PAAL and KRECKE), 1890, A., 1443.
- p*-Nitrobenzylacetanilide (MELDOLA and SALMON), 1888, T., 779.
- o*-Nitrobenzylacetomethylamide (GABRIEL and JANSEN), 1892, A., 218.
- Nitrobenzylamine. See Benzylamine.
- o*-Nitrobenzylaniline and its derivatives (LELLMANN and STICKEL), 1886, A., 793.
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- m*-Nitrobenzylisobenzaldoxime (BEHREND), 1892, A., 50.
- p*-Nitrobenzylisobenzaldoxime, modifications of (BEHREND and KÖNIG), 1890, A., 1412.
- o*-Nitrobenzylbenzamide (GABRIEL and JANSEN), 1890, A., 1442.
- o*-Nitrobenzylcarbamide (GABRIEL and JANSEN), 1892, A., 218.
- p*-Nitrobenzylcarbamide (HAFNER), 1889, A., 982; 1890, A., 486.
- o*-Nitrobenzylcyanocamphor (HALLER), 1891, A., 1499.
- Nitrobenzyldeoxybenzoins, *o*- and *p*- (BUDDEBERG), 1890, A., 1142.
- m*-Nitrobenzyl dimethylamine (BOEHRMANN), 1886, A., 577.
- o*-Nitrobenzylethyl-*m*-amidophenol hydrochloride (LELLMANN and BOYER), 1890, A., 1116.
- o*-Nitrobenzylformamide (GABRIEL and JANSEN), 1890, A., 1443.
- o*-Nitrobenzylformanilide (PAAL and BUSCH), 1890, A., 72.
- o*-Nitrobenzylformo-*o*- and -*p*-toluidides (PAAL and BUSCH), 1890, A., 74, 73.
- m*-Nitro- β -benzylhydroxylamine (BEHREND), 1892, A., 51.
- p*-Nitrobenzyl alcohol (HAFNER), 1890, A., 486.
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- Nitrobenzylic chloride, reduction of (PELLIZZARI), 1885, A., 770.
- o*-Nitrobenzylic chloride (ABELLI), 1883, A., 1092; (KUMPF), 1884, A., 1004; (NÖLTING), 1884, A., 1005; 1885, A., 52.
- m*-Nitrobenzylic chloride (ABELLI), 1883, A., 1092.
- p*-Nitrobenzylic chloride (KUMPF), 1884, A., 1004.
- Nitrobenzylic iodides, *o*- and *p*- (KUMPF), 1884, A., 1004.
- p*-Nitrobenzylic nitrate (STAEDEL), 1883, A., 866.
- p*-Nitrobenzylic picrate (KUMPF), 1884, A., 1005.
- p*-Nitrobenzylideneamidophenyltolylamine (REICHOLD), 1890, A., 610.
- o*-Nitrobenzylideneazine (CURTIUS and JAY), 1889, A., 393.
- m*-Nitrobenzylidenebenzidine (SCHIFF and VANNI), 1890, A., 1298.
- m*-Nitrobenzylidenedimethylsulphone (BONGARTZ), 1886, A., 933.
- Nitrobenzylidenemalonic acid. See Benzylidenemalonic acid.
- m*-Nitrobenzylidene-2'-methylindole (FISCHER), 1888, A., 284.
- 3-Nitrobenzylidene-2'-methylquinoline (WARFANIAN), 1891, A., 330.
- 4-Nitrobenzylidene-2'-methylquinoline (BULACH), 1887, A., 976.
- m* Nitrobenzylidene-4'-methylquinoline (HEYMANN and KOENIGS), 1888, A., 853.
- Nitrobenzylidenephthalimidine (GABRIEL), 1886, A., 630.
- m*-Nitrobenzylidene-*p*-xylidine (PELUG), 1890, A., 606.
- p*-Nitrobenzylidenic chloride, preparation of (ZIMMERMANN and MÜLLER), 1885, A., 771.
- p*-Nitrobenzyl-*p*-nitroisobenzaldoxime (BEHREND and KÖNIG), 1891, A., 1034.
- Nitrobenzyl *o*-nitro-*o*-cresol and *o*-nitrophenol (STAEDEL), 1883, A., 864.
- Nitrobenzylphosphinic acid (LITTHAUS), 1882, A., 1168.
- o*-Nitrobenzylphthalimide (GABRIEL), 1887, A., 1037.

- m*-Nitrobenzylphthalimide (GABRIEL and HENDESS), 1888, A., 144.
- p*-Nitrobenzylphthalimide (HAFNER), 1889, A., 982; (SALKOWSKI), 1889, A., 1174.
- di*Nitro-*m*-benzyltoluene (SENF), 1884, A., 427.
- o*-Nitrobenzyl-*p*-toluidine and its derivatives (LELLMANN and STICKEL), 1886, A., 793.
- Nitrobenzyl-*m*-xyldine (JABLIN-GONNET), 1892, A., 1320.
- penta*Nitrobisazobenzenephnylhydrazine (WILGERODT and MÜHE), 1892, A., 456.
- Nitrobrucine (HANSEN), 1886, A., 564.
- di*Nitrobutane and its salts (CHANCEL), 1883, A., 915; 1885, A., 647.
- Nitrobutane, tertiary (BEWAD), 1891, A., 653.
- di*Nitroisobutylaniline (BARR), 1888, A., 823.
- Nitro-*tert*-butylbenzene (SENKOWSKI), 1890, A., 1296.
- m*-Nitroisobutylbenzene (GELZER), 1889, A., 43.
- Nitro-*p*-isobutylphenol (GELZER), 1889, A., 43.
- tri*Nitro-*m*-isobutyltoluene (BAUR), 1890, A., 1401; 1891, A., 1464.
- tri*Nitroisobutyl-*m*-xylene (BAUR), 1890, A., 1402.
- Nitrocampholenic acid (KACHLER and SPITZER), 1883, A., 1008.
- Nitrocamphor. See Camphor.
- Nitrocamphorates (CAZENEUVE), 1888, A., 963.
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- Nitrocarbazole (MAZZARA), 1891, A., 570.
- Nitrocarbonyl-*o*-amidophenol (v. CHELMICKI), 1891, A., 52.
- 1-Nitrocarbostyryl (v. MILLER and KINKELIN), 1889, A., 990.
- Nitrocarbostyryl, α -, β - and γ - (FRIEDLÄNDER and LAZARUS), 1885, A., 1139.
- di*Nitrocarvacrol (MAZZARA), 1891, A., 47.
- Nitrocasein, use of, in dyeing (DOLLFUS), 1884, A., 1449.
- Nitrocellulose (GROSS and BEVAN), 1883, T., 23; (NETTLEFOLD), 1887, A., 792.
- Nitrochloroform. See Chloropicrin.
- Nitrocinnamaldehyde. See Cinnamaldehyde.
- p*-Nitrocinnamaldoxime (EINHORN and GEHRENBECK), 1890, A., 161.
- o*-Nitrocinnamhydrazoine (CORNELIUS and HOMOLKA), 1886, A., 1026.
- Nitrocinnamic acid. See Cinnamic acid.
- o*-Nitrocinnamoylacetone (FISCHER and KUZEL), 1883, A., 587, 588.
- o*-Nitrocinnamoylacetaldehyde (EINHORN), 1884, A., 1346.
- o*-Nitrocinnamoylformic acid (v. BAEYER and DREWSEN), 1883, A., 341.
- tri*Nitrocitrotrianil (SCHNEIDER), 1888, A., 465.
- Nitrocobalt (SABATIER and SENDERENS), 1892, A., 1390.
- Nitrococcusic acid. See *tri*Nitrohydroxy-*m*-toluic acid.
- Nitrocærulignol (PASTROVICH), 1883, A., 1006.
- Nitrocopper (SABATIER and SENDERENS), 1892, A., 1390.
- Nitrocoumaraldehydes (v. MILLER and KINKELIN), 1887, A., 939.
- o*-Nitrocoumarin (v. MILLER and KINKELIN), 1889, A., 989.
- m*-Nitrocoumarin (TAECE), 1887, A., 939; 1891, A., 918.
- o*-Nitrocoumarinic acid (v. MILLER and KINKELIN), 1889, A., 989.
- Nitrocresols. See Cresol.
- tri*Nitrocresotic acid. See *tri*Nitrohydroxy-*m*-toluic acid.
- Nitrocresorcinol. See Nitro-2:4-dihydroxytoluene.
- Nitrocumenes. See Cumene.
- m*-Nitro- ψ -cumenol (AUWERS), 1886, A., 144.
- 2:5-*di*Nitro- ψ -cumenol (AUWERS), 1885, A., 381; 1886, A., 144.
- Nitro- ψ -cumidinesulphonic acid (MAYER), 1887, A., 953.
- o*-Nitrocuminaldehyde (*o*-nitrocuminol) (EINHORN and HESS), 1884, A., 1352.
- Nitrocuminic acids. See Cuminic acid.
- Nitro- ψ -cumo-quinol and -quinone (NEF), 1887, A., 255; 1888, T., 438.
- m*-Nitro- α -cumylacetaldehyde (v. MILLER and RONDE), 1889, A., 984.
- Nitrocumylacrylic acid. See Cumylacrylic acid.
- m*-Nitro- ψ -cumylic nitrate (AUWERS), 1885, A., 380.
- m*-Nitrocyananiline (SENF), 1887, A., 929.
- o*-*di*Nitrocycano-*s*-diphenylethane (*nitrocycandibenzyl*) (BAMBERGER), 1887, A., 131.
- Nitrocycano-*m*-xylene (AHRENS), 1892, A., 1437.
- Nitrocymenes. See Cymene.
- Nitrocymene- α -sulphonamide (ERRERA), 1890, A., 1287.

- 6-Nitro-*p*-cymene-2-sulphonic acid and an isomeride (ERRERA), 1890, A., 1287, 1288; 1891, A., 1066.
- 2-6-*di*Nitrocymidine, constitution of (MAZZARA), 1890, A., 753.
- Nitro-*m*-isocymidine (KELBE and WARTH), 1884, A., 47.
- Nitrodehydropiperidylmethylethane (SCHOTTEN), 1883, A., 814.
- Nitrodehydropiperidylurethane and its bromhydroxyl-derivative (SCHOTTEN), 1883, A., 814.
- p*-Nitrodeoxybenzoin (PETRENKO-KRITSCHENKO), 1892, A., 1227.
- p*-Nitrodeoxybenzoinoxime (NEY), 1888, A., 1197.
- Nitro-derivatives, method of preparing (ARMSTRONG and ROSSITER), 1891, P., 91.
- preparation of secondary and tertiary, from halogen derivatives of nitromethane and nitroethane (BEWAD), 1889, A., 1128.
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- action of zinc ethyl on primary and secondary (BEWAD), 1889, A., 1127.
- di*Nitro-derivatives, reaction for (JANOVSKY), 1891, A., 685.
- Nitro- α -diacetonnaphthalides, *o*- and *p*- (LELMANN and REMY), 1886, A., 621.
- 2-Nitro-1:4-diaceto- α -naphthylenediamide (KLEEMANS), 1886, A., 472.
- Nitrodiacetotolylene-*o*-diamides, *mono*- and *di*- (BISTRZYCKI and ULFFERS), 1892, A., 1197.
- 3-Nitrodiacetyl-*p*-amidophenol (HÄHLE), 1891, A., 430.
- m*-*di*Nitrodiacetylbenzidine-*m*-sulphonic acid (ZEHRA), 1891, A., 313.
- Nitrodiacetylresorcinol (ERRERA), 1886, A., 51.
- Nitrodiazo-. See Diazo- under Azo-.
- m*-Nitrodibenzamide (LOSSEN), 1892, A., 52.
- Nitrodibenzotolylene-diamide (BISTRZYCKI and ULFFERS), 1892, A., 1197.
- di*Nitrodibenzoyl-*p*-oxydiphenylamine (PHILIP and CALM), 1885, A., 156.
- Nitrodibenzoylresorcinols, *mono*-, and *tri*- (ERRERA), 1886, A., 50, 51.
- Nitrodibenzoylstyrene (JAPP and KLINGEMANN), 1890, T., 676.
- m*-*di*Nitrodibenzylbenzene (BECKER), 1883, A., 203.
- p*-*di*Nitrodibenzylbenzene (BASLER), 1884, A., 310.
- p*-*di*Nitrodibenzylcarbamide (HAFNER), 1889, A., 982.
- Nitrodibenzylhydroxylamine, oxidation of (BEHREND and KÖNIG), 1892, A., 1456.
- o*-Nitrodibenzyllic *mono*- and *di*-sulphides (JAHODA), 1890, A., 487, 488.
- di*Nitrodibenzylidene-*di*thioamide (EPHRAIM), 1891, A., 831.
- m*-Nitrodibenzylmethylaniline (BORG-MANN), 1886, A., 56.
- di*-*o*-Nitrodibenzylmethylaniline (GABRIEL and JANSEN), 1892, A., 218.
- p*-*di*Nitrodibenzylthiocarbamide (HAFNER), 1890, A., 487.
- Nitrodiacresol = (nitro*di*hydroxyditolyl) (LOEWENHERZ), 1892, A., 852.
- di*Nitrodiacresol (DENINGER), 1888, A., 838.
- di*Nitrodiethenyltetramidoditolyl (BANKIEWICZ), 1888, A., 1184.
- Nitro-1:4-diethoxybenzenes, *mono*-, *di*-, and *tri*- (NIETZKI), 1883, A., 466.
- tri*Nitro-1:4-diethoxybenzene, actions of (NIETZKI and KAUFMANN), 1892, A., 314.
- m*-Nitrodiethylaniline (GROLL), 1886, A., 347.
- p*-Nitrodiethylaniline (LITTMANN and FLEISSNER), 1883, A., 868, 1100.
- di*Nitrodiethylaniline (LITTMANN and FLEISSNER), 1884, A., 179.
- Nitrodiethylbenzamide (VAN ROMBUGH), 1886, A., 546.
- di*Nitrodihydroxyanisole (NIETZKI and KURTENACKER), 1892, A., 596.

- tetra*Nitro-1:3:4-dihydroxybenzene (HENRIQUES), 1883, A., 327, 329.
- Nitro-*p*-dihydroxydiphenylchloroethanes, *di*- and *tri*- (ELBS and HOERMANN), 1889, A., 998.
- 3-Nitro-2:4-dihydroxypyridine-5- or 6(2)-carboxylic acid (BISCHOFF), 1889, A., 519.
- Nitro-2:5-dihydroxyquinone (NIETZKI and SCHMIDT), 1889, A., 968.
- 2:5-*di*Nitro-3:6-dihydroxyquinone. See Nitranilic acid.
- di*Nitro-2:4-dihydroxytoluene (*dinitro-cresorcinol*) (v. KOSTANECKI), 1888, A., 264.
- 4-Nitro-3:6-dihydroxytoluquinone (*nitranilic acid*) (KEHRMANN), 1888, A., 949; (KEHRMANN and BRASCH), 1889, A., 969.
- m*-Nitro-*p*-dihydroxytriphenylmethane (DEVARDA and ZENONI), 1891, A., 1346.
- di*Nitro-*p*-dihydroxytriphenylmethane (RUSSANOFF), 1891, A., 1235.
- tetra*(Nitrodimethyl-*di*amidobenzophenone) (VAN ROMBURGH), 1888, A., 1079, 1197.
- di*Nitrodimethylamidodiphenylamine (*nitrodimethylphenylphenylacetamide*) (HELLMANN and MACK), 1890, A., 1410.
- di*Nitrodimethylamidophenol and its derivatives (LIPPMANN and FLEISSNER), 1886, A., 235.
- Nitrodimethylamine, reduction of (FRANCHIMONT), 1885, A., 963.
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- Nitrodimethyl-*o*-anisidines, *mono*- and *tri*- (GRIMAU and LEFEVRE), 1891, A., 1031.
- tetra*Nitrodimethylazobenzene (MERTENS), 1886, A., 1022.
- Nitrodimethylbenzamide (VAN ROMBURGH), 1886, A., 546.
- tetra*Nitrodimethylbenzidine (VAN ROMBURGH), 1887, A., 245.
- Nitro-2:4-dimethylbenzoic acid (AHRENS), 1892, A., 1437.
- 3-Nitro-2:4-dimethylbenzoic acid (CLAUS), 1890, A., 980.
- 3:5-*di*Nitro-2:4-dimethylbenzoic acid (CLAUS), 1890, A., 981.
- di*Nitrodimethylmalonamide (FRANCHIMONT), 1886, A., 449.
- tetra*Nitrodimethyl-*di*Nitro-*di*amidobenzophenone (VAN ROMBURGH), 1888, A., 1079, 1196.
- di*Nitrodimethylloxamide (FRANCHIMONT), 1886, A., 448.
- 4-Nitrodimethyl-*o*-phenylenediamine (HEIM), 1888, A., 1097.
- 2:4:6-(2)*tri*Nitrodimethyl-*m*-phenylenediamine (VAN ROMBURGH), 1888, A., 1185.
- 4-Nitro-1:3-dimethylquinoline (NOTTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- Nitrodimethyl-*α*-resorcylic acid (*nitrodimethylphenolic acid*) (MEYER), 1888, A., 148.
- di*Nitro-*s*-dimethylsulphonamide (FRANCHIMONT and KLOBBIE), 1885, A., 969.
- di*Nitro-*β*-dinaphtholdisulphonic acid (JULIUS), 1888, A., 161.
- Nitrodinaphthyls, *mono*- and *di*- (JULIUS), 1887, A., 56.
- tetra*Nitro-*β*-*β*-dinaphthyl (STAUB and SMITH), 1885, T., 105.
- di*Nitro-*di*-*β*-naphthyl ketone oxide (CLAUS and RUPPEL), 1890, A., 510.
- Nitro-*di*-*β*-naphthylamines, *di*- and *tetra*- (RIS and WEBER), 1884, A., 752; (RIS), 1888, A., 58.
- hexa*Nitro-*di*-*β*-naphthylamine (RIS), 1888, A., 58.
- tetra*Nitro-*α*- and -*β*-naphthylcarbamides (PERKIN), 1892, T., 467.
- Nitro-*di*-*β*-naphthylene oxides, *mono*- and *tetra*- (HODGKINSON and LIMPACH), 1891, T., 1100.
- di*Nitro-*α*-*β*-dinaphthyl sulphide (EKSTRAND), 1885, A., 171.
- p*-Nitro-3:3'-diphenic acid (*nitro-diphenylcarboxylic acid*) (STRASBURGER), 1884, A., 329.
- 3:3'-*di*Nitro-*p*-diphenol (KUNZE), 1889, A., 262.
- 1:2-*di*Nitrodiphenyl (TÄUBER), 1891, A., 570.
- 1:3-*di*Nitrodiphenyl (BRUNNER and WITT), 1887, A., 673.
- p*-*di*Nitrodiphenylacetylene (ELBS and BAUER), 1887, A., 152.
- Nitrodiphenylamine. See Diphenylamine.
- di*Nitrodiphenylamine-*o*-carboxylic acid and its derivatives (JOURDAN), 1885, A., 988.
- m*-Nitrodiphenylamine-*p*-carboxylic acid (SCHÖFF), 1890, A., 374.
- Nitrodiphenylbenzylidenemalimidine (COHN), 1892, A., 487.
- tri*Nitrodiphenylbenzylphosphine oxide (DÖRKEN), 1888, A., 833.
- m*-Nitro-*s*-diphenylcarbamide (LEUCKART), 1890, A., 760.
- p*-Nitro-*s*-diphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1285; (LEUCKART), 1890, A., 760.
- m*-*di*Nitro-*s*-diphenylcarbamide (LO SANTIUSCH), 1882, A., 583.

- p-di*-Nitrodiphenyldibutynyl ketone (EINHORN and GEHRENDORF), 1890, A., 162.
- m-di*-Nitrodiphenyldisulphine (EINBOM), 1891, A., 567.
- p-di*-Nitro-*s*-diphenylethane, preparation of (ROSER), 1887, A., 836.
- Nitro-*as*-diphenylethanes, *mono*- and *di*- (ANSCHÜTZ and ROMIG), 1885, A., 768.
- Nitrodiphenylformamidine *m-mono*- and *m-di*- (COMSTOCK and WHEELER), 1892, A., 706, 707.
- Nitrodiphenylguanidine dicyanide (HIRSCH), 1888, A., 947.
- α-di*-Nitro-*s*-diphenylhydrazine (WILLGERODT and FERKO), 1888, A., 829; (WILLGERODT and HERMANN), 1889, A., 1160; 1890, A., 1259.
- tri*-Nitro-*s*-diphenylhydrazine (FISCHER), 1890, A., 40.
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- m*-Nitrodiphenylizindihydroxytartaric acid (BISCHLER and BRODSKY), 1890, A., 151.
- Nitrodiphenylmethane. See Diphenylmethane.
- m*-Nitro-*s*-diphenylmethylcarbamide (LELLMANN and BENZ), 1891, A., 1215.
- Nitrodiphenylmethylcarbinol (ANSCHÜTZ and ROMIG), 1885, A., 768.
- Nitro-1:5-diphenyl-3-methylpyrazoles, *o*- and *p*- (KNORR and JÖDICKE), 1885, A., 1247, 1248.
- tri*-Nitro-1:3-diphenyl-5-methylpyrazole (KNORR and LAUBMANN), 1889, A., 409.
- Nitro-1:5-diphenyl-3-methylpyrazole-4-carboxylic acids, *o*- and *p*- (KNORR and JÖDICKE), 1885, A., 1247, 1248.
- Nitrodiphenyl-*αβ*-naphthatriazines, *o*-, *m*- and *p*- (MURDOCH and PORTER), 1891, T., 681.
- o*-Nitrodiphenylnitrosamine (FISCHER), 1892, A., 332.
- Nitrodiphenyloxalylguanidine (HIRSCH), 1888, A., 947.
- Nitrodiphenylparabanic acid (HIRSCH), 1888, A., 947.
- di*-Nitrodiphenylparabanic acid (STOJENTIN), 1885, A., 1195.
- di*-Nitrodiphenylphosphinic acid (DÖRKEN), 1888, A., 833.
- di*-Nitrodiphenylphosphonic acid (RAPP), 1884, A., 1337.
- p-di*-Nitrodiphenylpicoline (SCHMIDT and WICHMANN), 1892, A., 210.
- di*-Nitro-2:3-diphenylpyrazine (MAGG), 1887, T., 101.
- Nitrodiphenylquinols, *di*-, *tri*- and *tetra*- (NIEFKE and SCHNITZER), 1892, A., 310.
- Nitrodiphenylresorcinols, *tetra*-, *penta*- and *hexa*- (NIEFKE and SCHNITZER), 1892, A., 310.
- m*-Nitrodiphenylsemithiocarbazide (BISCHLER and BRODSKY), 1890, A., 151.
- di*-Nitrodiphenylsulphoxide (COLBY and McLOUGHLIN), 1887, A., 372.
- Nitrodiphenyltetrazine (RUDEMANN), 1890, T., 51.
- Nitro-*s*-diphenylthiocarbamides, *mono*- and *di*-, action of iodine on (LOSANITSCH), 1883, A., 582.
- Nitrodiphenylthiocarbimides, *m-mono*- and *m-di*- (STEUEMANN), 1883, A., 801.
- Nitrodiphenylalyl (GABRIEL and GUYE), 1886, A., 882.
- Nitrodiphenyllethanes, *mono*- and *di*- (GABRIEL), 1886, A., 620.
- di*-Nitrodipiperonylideneacetone (HABER), 1891, A., 705.
- di*-Nitrodipropylaniline (VAN ROEMBURGH), 1889, A., 971.
- di*-Nitro-*p*-dipropylbenzene (KÖRNER), 1883, A., 321.
- di*-Nitrodiorescinol (HAZURA), 1883, A., 1114.
- p*-Nitrodistyryl ketone (V. BAEYER and BECKER), 1883, A., 1120.
- di-o*-Nitrodistyrylvinyl ketone (DIEHL and EINHORN), 1885, A., 1222.
- di*-Nitro-*o*-ditolyl, preparation of (TÄUBER and LOEWENHERZ), 1891, A., 1491.
- di*-Nitroditolyl ketone (LANGE and ZUFALL), 1892, A., 1460.
- di*-Nitroditolylethylenediamine (GATTERMANN and HAGER), 1884, A., 1112.
- Nitro-*o*- and *p*-ditolyltetrazines (RUDEMANN), 1890, T., 54, 51.
- Nitro-*p*-ditolylthiocarbamides, *o*- and *di*- (STEUEMANN), 1884, A., 308, 307.
- Nitroethane. See Ethane.
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- p*-Nitrofluorene (SARGENT), 1881, A., 754.
- α*-Nitroformanilide (COMSTOCK and WHEELER), 1892, A., 706.
- p*-Nitroformanilide (COMSTOCK and MIXTER), 1887, A., 250.
- Nitroformylaminodiphenylamine (MAGG), 1887, T., 101.
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- Nitro- β -hydroxyphenylpropionic acid** (*nitrophenyl- β -lactic acid*). See β -Hydroxyphenylpropionic acid.
- Nitro- β -hydroxyphenylpropionyl methyl ketone**, *o*- and *p*- (V. BAEYER and DREWSSEN), 1883, A., 341; (V. BAEYER and BECKER), 1883, A., 1120.
- Nitrohydroxyphenylpyrotartaric acids**, *m*- and *p*- (*nitrophenylitamic acids*), and barium salts of (SALOMONSON), 1888, A., 480.
- di***Nitrohydroxyphthalic acid** (BERTHSEN and SEMPER), 1885, A., 548.
- 2-Nitro-4-hydroxyisopropylbenzoic acid** (WIDMAN), 1886, A., 466.
- 3-Nitro-4-hydroxyisopropylbenzoic acid** and its derivatives (WIDMAN), 1883, A., 330; 1884, A., 316.
- Nitrohydroxypropylphthalimide** (NEUMANN), 1890, A., 890.
- Nitrohydroxyquinoline**. See Hydroxyquinoline.
- Nitro-1-hydroxyquinolinecarboxylic acid** (SCHMITT and ENGELMANN), 1888, A., 66.
- di***Nitrohydroxyquinone**, preparation of (NIETZKI), 1884, A., 58.
- 5-Nitro-*o*-hydroxytoluic acid** (HÖNIG), 1886, A., 242.
- tri***Nitrohydroxy-*m*-toluic acid** (*nitrococcusic acid*; *trinitrocresotic acid*), synthesis of (V. KOSTANECKI and NIEMENTOWSKI), 1885, A., 531.
- p*-**Nitrohydroxyvinylphenylpropionic acid** (EINHORN and GEHRENBECK), 1889, A., 397.
- Nitrodimido-quinol and -resorcinol** (NIETZKI and SCHMIDT), 1889, A., 968, 969.
- Nitroindazine** (WITT, NÖLTING and GRANDMOUGIN), 1891, A., 312.
- Nitroindoles**, derivatives of (ZATTI), 1890, A., 897.
- Nitro-keto-compounds**, formation of (ARMSTRONG and ROSSITER), 1891, P., 89.
- Nitro- α_1 -keto- γ_1 -methyl- β_1 -ethyljuloline** (KAYSER and REISSERT), 1892, A., 883.

- Nitroketones**, preparation of (LANGE and ZUFALL), 1892, A., 1159.
- ψ -**Nitroles**, conversion of ketoximes into (SCHOLL), 1888, A., 443.
constitution of (MEYER), 1888, A., 702.
- o*-**Nitroleucomalachite-green** (*o*-nitro-tetramethylidiodiphenylmethane) (FISCHER and SCHMIDT), 1884, A., 1315.
- Nitrolimetin** (TILDEN), 1892, T., 350.
- Nitrolie acids** (JANOVSKY), 1885, A., 1131.
- Nitroltrimetaphosphoric acid** (MENTE), 1889, A., 211.
- o*-**Nitromalachite-green** (FISCHER and SCHMIDT), 1884, A., 1315.
- Nitromandelic acid**. See Mandelic acid.
- o*-**Nitromecanineacetic acid** (LIEBERMANN and KLEEMANN), 1887, A., 48.
- Nitromesitylacetic acid** and its salts (WISPEK), 1888, A., 1096.
- di*-**Nitromesitylacetic acid** (DITTRICH and MEYER), 1891, A., 1224.
- Nitromesitylene**, oxidation of (EMERSON), 1887, A., 132.
- di*-**Nitromesitylene methylnitramide** (KLOBBIE), 1888, A., 467.
- di*-**Nitromesitylgyoxylic acid** (DITTRICH and MEYER), 1891, A., 1224.
- Nitro-metals** (SABATIER and SENDERENS), 1892, A., 1390.
- Nitrometer** (BLUNT), 1887, A., 998.
improved form of (LUNGE), 1888, A., 526.
reduction of ferric nitrate in (BAYLEY), 1886, A., 1072.
uses of (ALLEN), 1886, A., 278; (LUNGE), 1886, A., 391.
supposed error in the use of (LUNGE), 1886, A., 391.
use of, in the estimation of potassium permanganate, zinc-dust, and reduced iron powder (LUNGE), 1885, A., 1162.
modification of, for use as a ureometer and other purposes (LUNGE), 1885, A., 1267.
- Nitromethane**. See Methane.
- Nitromethaneazobenzoic acid** (GRIESS), 1885, A., 788.
- Nitromethoxybenzaldehyde**. See Methoxybenzaldehyde.
- Nitro-*m*-methoxybenzoic acids**, *o*- and *m*- (RIECHER), 1889, A., 1169, 1170.
- 2-Nitro-6-methoxybenzonitrile** (LOREY DE BRUYN), 1885, A., 657.
- Nitromethoxycinnamaldehyde** (v. MILLER and KINKELIN), 1889, A., 990.
- Nitromethoxycinnamic acid** (*nitro-methylcoumaric acid*). See Methoxycinnamic acid.
- m*-**Nitromethoxy- ψ -cumene** (AUWERS), 1886, A., 144.
- 2-Nitro-5-methoxy- β -hydroxyphenylpropionamide** (EICHENGRÜN and EINHORN), 1890, A., 1128.
- 2-Nitro-5-methoxy- β -hydroxyphenylpropionic acid** (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1100.
- 2-Nitro-5-methoxyphenyl- β -bromopropionic acid** (EICHENGRÜN and EINHORN), 1890, A., 1127.
- m*-**Nitro-*p*-methoxyphenyldibromopropionic acid** (EINHORN and GRABFIELD), 1888, A., 478.
- m*-**Nitro-*p*-methoxyphenylethylene** (EINHORN and GRABFIELD), 1888, A., 477.
- 2-Nitro-3-methoxy-2'-phenylquinoline** and its derivatives (v. MILLER and KINKELIN), 1887, A., 978.
- m*-**Nitro-*p*-methylaceto-*p*-toluidide** (NIEMENTOWSKI), 1887, A., 937.
- p*-**Nitromethylamidoazobenzene**. See Benzeneazomethylaniline, nitro-.
- Nitromethylamidobenzoic acids** (THIEME), 1891, A., 916, 917.
- 5-Nitro-2-methylamidobenzomethylamide** (THIEME), 1891, A., 917.
- 2:4:6-*tri*-Nitromethylamidomethylnitramidobenzene** (VAN ROMBURGH), 1889, A., 1154.
- Nitromethylaniline**. See Methylaniline.
- tri*-**Nitromethyl-*o*-anisidine** (GRIMAUD and LEFEVRE), 1891, A., 1032.
- Nitro- β -methylantraquinone** (ROEMER and LINK), 1883, A., 1138.
- Nitromethylisobenzaldoxime**, *m*- and *p*- (GOLDSCHMIDT), 1890, A., 1262; (GOLDSCHMIDT and KJELLIN), 1891, A., 1477.
- Nitromethylbenzamide** (VAN ROMBURGH), 1886, A., 546.
- Nitromethylcarbostyryl** (FEER and KOENIGS), 1885, A., 1235.
- Nitromethylcoumaraldehyde** (v. MILLER and KINKELIN), 1889, A., 990.
- Nitromethylcoumaric acid** (*nitromethoxycinnamic acid*). See Methylcoumaric acid.
- Nitromethylenephthalide** (ZINCKE and LATTEN), 1892, A., 1231.
- Nitro-*o*-methylethylbenzenes**, *mono*- and *di*- (CHAPS and FISCHER), 1887, A., 240.
- m*-**Nitromethyl-formanilide** and *iso*-formanilide (COMSTOCK and WHEELER), 1892, A., 706.

- Nitromethylhydantoin** (FRANCHIMONT and KLOBBIE), 1888, A., 1180; 1889, A., 1143.
 action of water on (FRANCHIMONT and KLOBBIE), 1889, A., 125.
- di***Nitromethylhydro-*p*-coumaric acid** (SFOEHR), 1884, A., 1350.
- di***Nitro-2'-methylindole** (ZATTI), 1890, A., 897.
- Nitro- α -methyl-naphthalene** (SCHERLER), 1892, A., 494.
- tri***Nitromethyl- α - and - β -naphthols** (STAEDEL), 1883, A., 863.
- Nitromethylpyrocatechol derivatives** (COUSIN), 1892, A., 1443.
- di***Nitromethylquinol** (WENDER), 1890, A., 752.
- Nitromethylquinoline.** See Methylquinoline.
- 4-Nitromethylquinolone** (DECKER), 1892, A., 880.
- vi***Nitromethyl-*p*-toluidine** (NORTON and LIVERMORE), 1887, A., 1038.
- Nitro- β -methylumbelliferone** (v. PECHMANN and COHEN), 1884, A., 1332.
- Nitromethyluracil** (BEHREND), 1887, A., 919; (LEHMANN), 1890, A., 32.
- Nitromolybdic acid solution**, concentrated, preparation of (GUYARD), 1884, A., 638.
- Nitronaphthalene.** See Naphthalene.
- Nitronaphthalene-1:1'-dicarboxylic acid and anhydride** (QUINCKE), 1888, A., 844.
- Nitronaphthalene-2:2'-disulphonic acid and its chloride** (ALÉN), 1883, A., 596.
- di***Nitronaphthalene-3:3'-disulphonic chloride** (ALÉN), 1883, A., 596.
- 1:3'- α -Nitronaphthalenesulphonamide**, action of hydriodic acid on (EKBOM), 1891, A., 573.
- 1:4'-Nitronaphthalenesulphonamide**, action of hydriodic acid on (EKBOM), 1890, A., 994.
- Nitronaphthalenesulphonic acid.** See Naphthalenesulphonic acid.
- Nitro- α -naphthamide** (EKSTRAND), 1886, A., 948.
- Nitro- β -naphthaquinhydrone** (GROVES), 1884, T., 300.
- Nitro- β -naphthaquinol** (GROVES), 1884, T., 299; (ZAERTLING), 1890, A., 509.
- Nitronaphthaquinone.** See Naphthaquinone.
- Nitro- β -naphthaquinoneanilide** (BRAUNS), 1884, A., 1038; (KORN), 1884, A., 1186.
- Nitro- β -naphthaquinone-*o*- and -*p*-toluidides** (BRAUNS), 1884, A., 1038.
- Nitronaphthoic acid.** See Naphthoic acid.
- Nitronaphthol.** See Naphthol.
- Nitronaphtholactone** (EKSTRAND), 1889, A., 153.
- 4'-Nitro- α -naphthonitrile and nitro- β -naphthonitrile** (GRAEFF), 1884, A., 80.
- m*-**Nitro-*p*- α - and - β -naphthylamido-benzoic acids** (HEIDENSLEBEN), 1891, A., 307.
- Nitronaphthylamine.** See Naphthylamine.
- 4'-Nitro- α -naphthylamine-4-sulphonic acid** (NIETZKI and ZÜBELEN), 1889, A., 514.
- α -Nitro- β -naphthyllic benzoate and acetate**, reduction of (BÖTTCHER), 1885, A., 659.
 benzoate and acetate, molecular transformation of (BÖTTCHER), 1883, A., 1113.
- di***Nitronaphthyllic sulphide** (EKSTRAND), 1885, A., 171.
- Nitronates** (DIVERS), 1883, T., 455, 466.
- Nitronitrosoanthrone** (PERKIN), 1891, T., 639.
 action of sodium sulphide on (PERKIN), 1891, T., 640.
- Nitronitrosoazobenzene.** See Azobenzene.
- Nitronitrosobenzeneazo-.** See Benzeneazo-.
- p*-**Nitronitroso- β -benzylhydroxylamine** (BEHREND and KÖNIG), 1891, A., 1035.
- tetra***Nitronitrosobisazobenzene-*p*-chlorophenylhydrazine** (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÜHM), 1891, A., 907.
- o*-Nitro-*o*-nitroso-*p*-diazotoluene chloride.** See Methyl-*o*-nitro-*p*-diazobenzene chloride, nitroso-.
- di-p*-**Nitrodinitrosoditoluene** (*bis-p*-nitronitrosylbenzyl) (BEHREND and KÖNIG), 1891, A., 1035.
- o*-Nitronitrosoethylaniline** (HEMPEL), 1889, A., 600; 1890, A., 612.
- o*-Nitronitrosomethylaniline** (HEMPEL), 1890, A., 612.
- Nitrodinitrosophenol** (WILLGERODT), 1891, A., 688; 1892, A., 594.
- Nitrodinitrosophenol-acenaphthene and -anthracene** (WILLGERODT), 1891, A., 689.
- 2:4-Nitronitrosoresorcinol** (DE LA HARPE and REVERDIN), 1888, A., 679; 1889, A., 41.
- Nitronitroso-*m*-xylenecarboxylic acid** (CLAUS), 1890, A., 980.

- Nitronononaphthene** (KONOWALOFF), 1892, A., 443.
- Nitro-octylbenzenes**, *o*-, *m*- and *p*- (AHRENS), 1887, A., 133.
- diNitro-octylbenzene** (AHRENS), 1887, A., 133.
- Nitro-opianic acid**, behaviour of, with phenylhydrazine (LIEBERMANN), 1886, A., 550.
reduction of (KLEEMANN), 1887, A., 584.
- Nitro-oreosolon** (JASSOY), 1890, A., 1154.
- 1-Nitro-oxalo- β -naphthalide**, bis- (PERKIN), 1892, T., 466.
- m*-Nitro-oxalo-*p*-toluicide**, bis- (HINSBERG), 1883, A., 323.
- 5-Nitro-oxalo-*o*-toluicide**, bis- (PERKIN), 1892, T., 463.
- 3:5-diNitro-oxalo-*o*- and *p*-toluidides**, bis- (MIXTER and KLEEBERG), 1889, A., 771; (PERKIN), 1892, T., 464, 465.
- triNitro-oxanilanilide** (MIXTER and WALTHER), 1888, A., 142.
- Nitro-oxanilic acid**. See Oxanilic acid.
- Nitro-oxanilide**. See Oxanilide.
- Nitro-oxycamphor** (KACHLER and SPITZER), 1883, A., 215.
- 4-Nitro-2'-oxy-3:1'-dimethylquinoline** (DECKER), 1892, A., 880.
- m*-Nitro-4'-oxy-2'-methylquinazoline** (DEHOFF), 1891, A., 84; (THIEME), 1891, A., 917.
- Nitro-oxyquinone carbonate** (LÖWENBERG), 1886, A., 789.
- Nitroparaffins**, constitution of (KISSEL), 1885, A., 364.
- Nitropentane** (BEWAD), 1889, A., 1127.
- Nitroperseitol** (MÜNTZ and MARCANO), 1884, A., 1285.
- diNitro-*p*-phenacetide** (WENDER), 1890, A., 751.
- o*-Nitrophenacetin** (AUTENRIETH and HINSBERG), 1892, A., 160.
- Nitrophenaceturic acid** (HOTTER), 1888, A., 1299.
- m*-Nitrophenacylphthalimide** (SCHMIDT), 1890, A., 372.
- m*-Nitrophenacyl-*p*-toluidine** (LELMANN and DONNER), 1890, A., 525.
- Nitrophenanthraquinone** (LACHOWICZ), 1884, A., 82.
- 2:4-diNitrophenazoxine** (TURPIN), 1891, T., 724.
- o*-Nitro-*p*-phenetidine** (AUTENRIETH and HINSBERG), 1892, A., 160.
- 2:6-diNitro-*p*-phenetidine** (WENDER), 1890, A., 751.
- Nitrophenetol**. See Phenetol.
- Nitrophenol**. See Phenol.
- 2:4:6-triNitrophenol**. See Picric acid.
- diNitrophenolsulphonic acid**, preparation of (BEYER and KEGEL), 1885, A., 269.
- Nitrophenophenanthrazine** (HEIM), 1883, A., 1097.
- p*-Nitrophenoxyacetophenone** (MÖHLAU), 1883, A., 332.
- p*-Nitrophenyl mercaptan** (WILLGERODT), 1885, A., 519; (LEUCKART), 1890, A., 604.
- diNitrophenyl mercaptan** (AUSTEN and SMITH), 1886, A., 693.
ethers of (WILLGERODT), 1885, A., 519.
- m*-Nitrophenyl methyl ketoxime** (GABRIEL), 1883, A., 582.
- Nitrophenylacetamide**, *m*- and *p*- (PURGOTTI), 1891, A., 562.
- m*-Nitrophenylacetic acid** (GABRIEL and BORGMANN), 1883, A., 1121.
- o*-*p*-diNitrophenylacetic acid** (HECKMANN), 1884, A., 178.
- Nitrophenylacetoneitrile**. See Phenylacetoneitrile.
- Nitrophenyl- β -alanine**. See Nitr- β -anilidopropionic acid.
- Nitrophenylamido-**. See also Nitr-anilido-.
- Nitrophenyl-*li*-*p*-amidophenylisobutylmethanes**, *m*- and *p*- (BISCHLER), 1889, A., 133.
- Nitrophenyl- β -amidopropionic acid**. See Nitr- β -amidopropionic acid.
- m*-Nitrophenyl-*di*-*p*-amidotolylmethanes**, α - and β - (BISCHLER), 1889, A., 133.
- p*-Nitrophenyl-*di*-*p*-amidotolylmethanes**, α - and β - (BISCHLER), 1888, A., 287.
- Nitrophenyl-*di*-*amido*-*m*-xylylmethanes**, *m*- and *p*- (BISCHLER), 1889, A., 134.
- tetraNitrophenylazimidobenzene** (WILLGERODT), 1892, A., 1454.
- diNitrophenylazimidotolylamine** (ERNST), 1891, A., 300.
- o*-Nitrophenylazoacetacetic acid**, and its derivatives (BAMBERGER), 1885, A., 157.
- o*-Nitrophenylazoacetophenone** (BAMBERGER and CALMAN), 1886, A., 62.
- di-*o*-Nitrophenylbenzidine** (SCHÖFF), 1889, A., 773.
- Nitrophenylbenzyl oxides**, *o*- and *p*- (KUMPF), 1884, A., 1005.
- m*-Nitrophenylbenzylcarbamide** (KÜHN and RIENFELD), 1892, A., 312.
- o*-Nitrophenylbenzylhydrazine** (PAAL and BODEWIG), 1892, A., 1155.
- o*-Nitrophenylbenzylidenhydrazine** (BISCHLER), 1890, A., 148.

- m*-Nitrophenylbenzylidenehydrazine (BISCHLER and BRODSKY), 1890, A., 150.
- p*-Nitrophenyl- γ -*di*bromomethyl- β -bromacrylic acid (EINHORN and GEHRENBECK), 1889, A., 396; 1890, A., 162.
- p*-Nitrophenylbromethylactic acid, lactone of (EINHORN and GEHRENBECK), 1889, A., 397.
- p*-Nitrophenyl*di*bromobutinenecarboxylic acid (EINHORN and GEHRENBECK), 1889, A., 396.
- o*:*p*-*di*Nitrophenyl-*p*-bromophenylhydrazine (WILLGERODT and ELLON), 1891, A., 1362.
- o*-Nitrophenyl- β -bromopropionic acid and its derivatives (EINHORN), 1884, A., 65.
- m*-Nitrophenyl- β -bromopropionic acid (PRAUSNITZ), 1884, A., 1175.
- Nitrophenyl- β -bromo*isosuccinic* acids, *o*- and *p*- (STUART), 1886, T., 363, 362.
- Nitrophenyl*di*bromo*isosuccinic* acids, *m*- and *p*- (STUART), 1886, T., 361.
- Nitrophenylbutinene- ω -carboxylic acids (EINHORN and GEHRENBECK), 1889, A., 271, 396; 1890, A., 162.
- p*-Nitrophenyl*isobutyric* acid (EDELEANU), 1888, T., 558.
- o*:*p*-*di*Nitrophenyl-*m*-chlorophenylhydrazine (WILLGERODT and MÜHE), 1892, A., 454.
- o*:*p*-*di*Nitrophenyl-*p*-chlorophenylhydrazine (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 906.
- o*-Nitrophenyl*cinnamic* acid (OGLIA-LORO-TODARO and ROSINI), 1891, A., 214.
- Nitrophenyl*citraconazide* (MICHAEL), 1886, A., 699.
- o*:*p*-*di*Nitrophenyl*coniine* (LELLMANN and JUST), 1891, A., 1245.
- m*-Nitrophenyl*crotonaldehyde* (V. MILLER and KINKELIN), 1886, A., 560. base from (V. MILLER and KINKELIN), 1886, A., 701. product of the reduction of (V. MILLER and KINKELIN), 1886, A., 799.
- m*-Nitrophenyl*crotonic* acid (V. MILLER and ROHDE), 1890, A., 1140.
- p*-Nitrophenyl*dehydrohexonecarboxylic* acid (PERKIN), 1887, T., 736.
- β -*p*-Nitrophenyl*di*-*p*-acetamidoditolylmethane (BISCHLER), 1889, A., 132.
- m*-Nitrophenyl*dianethoilmethane* (DE VARDA), 1891, A., 1347.
- m*-Nitrophenyl*di*-*o*-cresolmethane (SIBONI), 1892, A., 621.
- Nitrophenyl*di*hydroxyphenylmethane-dicarboxylic acids, *o*-, *m*- and *p*- (DE VARDA), 1892, A., 621.
- m*-Nitrophenyl-di*orcino*lmethane and -*diphloroglucino*lmethane (BERTONI), 1891, A., 1378.
- Nitrophenyl*dipiperidyls*, *p*-*mono*- and *o*:*p*-*di*- (LELLMANN and JUST), 1891, A., 1245.
- p*-Nitrophenyl*diquinolylmethane* (EINHORN), 1886, A., 720.
- m*-Nitrophenyl*di*resorcinylmethane (DE VARDA and ZENONI), 1891, A., 1346.
- di*Nitrophenyl*dithienyl* (RENARD), 1890, A., 1421.
- m*-Nitrophenyl*ditolylmethane* (TSCHACHER), 1887, A., 44; 1888, A., 373.
- di*Nitro-*m*-phenylenediamine [m.p. 250°] (BARR), 1888, A., 823.
- di*Nitro-*m*-phenylenediamine [m.p. 300°] (NIETZKI and HAGENBACH), 1887, A., 477.
- tri*Nitro-*m*-phenylenediamine (NÖLTING and COLLIN), 1884, A., 1004; (BARR), 1888, A., 823.
- tri*Nitro-*m*-phenylenedimethyldinitramine (VAN ROMBURGH), 1888, A., 1079, 1185.
- Nitrophenylene-ethenylamidine (HEIM), 1888, A., 1097.
- di*Nitrophenylenehydroxylamine (WILLGERODT), 1892, A., 594.
- Nitrophenylene- β -naphthylethenyldiamine (HEIM), 1888, A., 488.
- o*-Nitrophenylethyl*ic* salicylate (*salicyl-ethylene nitrophenol ether*) (WAGNER), 1884, A., 436.
- Nitrophenylethyl*nitrosamine* (MELDOLA and STREATFEILD), 1886, T., 631.
- Nitrophenylethyl*urethane* (STEUDERMANN), 1883, A., 802.
- α -*p*-Nitrophenyl*furfuracrylonitrile* (FREUND and IMMERWAHR), 1890, A., 1408.
- Nitrophenylglycidic acid, *o*- and *p*- (LIPP), 1887, A., 142.
- Nitrophenylglycollic acid. See Mandelic acid, nitro-.
- Nitrophenylglyoxylic hydrazones, *o*- and *m*- (FEHLIN), 1890, A., 1117.
- Nitrophenylhydrazine. See Phenylhydrazine.
- 5-Nitrophenylhydrazine-*o*-sulphonic acid (LIMPRICHT), 1885, A., 1216.
- o*-Nitrophenylhydrazine-*p*-sulphonic acid (NIETZKI and LERCH), 1889, A., 144; (LERCH), 1889, A., 881.
- 4:6-*di*Nitrophenyl-1:2-hydroxylamine (WILLGERODT), 1891, A., 688; 1892, A., 594.

- o*-Nitrophenylic benzoate, reduction of (BÖTTCHER), 1885, A., 658.
- Nitrophenylic benzoates (NEUMANN), 1886, A., 350, 939; 1887, A., 254.
- di*Nitrophenylic carbonate (LÖWENBERG), 1886, A., 789.
- tri-p*-Nitrophenylic cyanurate (OTTO), 1887, A., 1033.
- o*-Nitrophenylic diphenylcarbamate (LELLMANN and BONHÖFFER), 1887, A., 936.
- Nitrophenylic diphenylcarbamates (LELLMANN and BENZ), 1891, A., 1215.
- o*-Nitrophenylic ethylic carbonate (BENDER), 1887, A., 37.
- Nitrophenylic orthoformate, tribasic (WEDDIGE), 1883, A., 340.
- Nitrophenylic nitrobenzoates (NEUMANN), 1886, A., 350, 939; 1887, A., 254.
- Nitrophenylic oxides, *o*- and *p*-, of dinitrophenol and of picric acid (WILLGERODT and HUETLIN), 1884, A., 1328.
- Nitrophenylic phenylcarbamate (GUMPERT), 1886, A., 342.
- Nitrophenylic phenylmethylecarbamates (LELLMANN and BENZ), 1891, A., 1214.
- p*-Nitrophenylic phosphate (RAPF), 1884, A., 1337.
- di*Nitrophenylic sulphide (*tetranitro-diphenylic sulphide*) (AUSTEN and SMITH), 1886, A., 693.
- m*-Nitrophenylic disulphide (LEUCKART), 1890, A., 604.
- p*-Nitrophenylic disulphide (WILLGERODT), 1885, A., 519.
- α-di*Nitrophenylic thiobenzoate (WILLGERODT), 1885, A., 519.
- di*Nitrophenylic thiocyanate (AUSTEN and SMITH), 1886, A., 693.
- Nitro-1'-phenylindazine-3'-carboxylic acid, action of stannous chloride on (SCHULHÖFER), 1891, A., 1231.
- Nitro-1'-phenyl-ψ-indazine-3'-carboxylic acid (MEYER), 1889, A., 517.
- m*-Nitrophenylizinedihydroxytartaric acid (BISCHLER and BRODSKY), 1890, A., 151.
- Nitrophenyl-*α*-lactic acid, nitrate of (ERLENMEYER and LIPP), 1883, A., 993.
- Nitrophenyl-*β*-lactic acid. See *β*-Hydroxyphenylpropionic acid.
- Nitro-*β*-phenyllactic methyl ketones. See Nitro-*β*-hydroxypropionyl methyl ketone.
- o*-Nitrophenylmethaneazobenzene (PAAL and BODEWIG), 1892, A., 1456.
- az-p*-Nitrophenyl-*ald*-methylnaphthatriazine (MELDOLA and FORSTER), 1891, T., 697, 712.
- 2:3:4:6-*tetra*Nitrophenylmethylnitramine, and its conversion into *m*-phenylenediamine derivatives (VAN ROMBURGH), 1889, A., 1154.
- p*-Nitrophenylmethylnitrosamine (FISCHER and HEPP), 1887, A., 244; (MELDOLA and SALMON), 1888, T., 775.
- μ-m*-Nitrophenyl-*β*-methyloxazoline (ELFELDT), 1892, A., 214.
- o-p-di*Nitrophenyl-*α*-methylpiperidine (LELLMANN and JUST), 1891, A., 1245.
- Nitrophenyl-*β*-methylpiperidine, *p-mono*- and *o-p-di*- (LELLMANN and BÜTTNER), 1890, A., 1003.
- 4-Nitro-1-phenyl-3-methylpyrazolone (KNORR), 1884, A., 302, 1153, 1378; 1887, A., 602; (KNORR and DUDEN), 1892, A., 731.
- m*-Nitro-2'-phenyl-3'-methylquinoline (V. MILLER and KINKELIN), 1886, A., 561.
- 2:4-*di*Nitrophenyl-*β*-naphthol (ERNST), 1891, A., 300.
- 2:4-*di*Nitrophenyl-*α*-naphthylamine (HEIM), 1888, A., 488, 1096.
- 2:4-*di*Nitrophenyl-*β*-naphthylamine (HEIM), 1888, A., 488; (ERNST), 1891, A., 300.
- o-p-di*Nitrophenyl-*α*- and -*β*-naphthylhydrazines (WILLGERODT and SCHULZ), 1891, A., 572.
- Nitrophenylnitrobenzenesulphazides, *m*- and *p*- (LIMPRICHT), 1887, A., 723.
- p*-Nitrophenyl-*o-p-di*nitrophenylcarbonyl cyanide (V. RICHTER), 1888, A., 1186.
- Nitrophenyl-*o*- and -*p*-nitrophenyl oxides, *di*- and *tri*- (WILLGERODT and HUETLIN), 1884, A., 1328.
- Nitrophenyl-*ald-m*- and -*p*-nitrophenylnaphthatriazines, *az-p*- and *m*- (MELDOLA and FORSTER), 1891, T., 693, 694.
- p*-Nitrophenylnitropropionic acid, derivatives of (FRIEDLÄNDER and MÄHL), 1885, A., 1137.
- m*-Nitrophenyl-*o*-nitro-*p*-tolylthiocarbamide (STEUDEMANN), 1884, A., 307.
- Nitro-*n*-phenylosotriazolecarboxylic acid (BALAZER and V. FECHMANN), 1891, A., 1116.
- μ-m*-Nitrophenyloxazoline (ELFELDT), 1892, A., 213.
- Nitro-*β*-phenyloxycrylic acids. See Nitrophenylglycidic acids.
- Nitrophenylparaconic acids (SALOMONSON), 1885, A., 1224; 1888, A., 480.
- μ-m*-Nitrophenylpentoxazoline (ELFELDT), 1892, A., 214.
- m*-Nitrophenylphenacyl oxide (LELLMANN and DONNER), 1890, A., 523.

- Nitrophenyl-*ald*phenylnaphthatriazines.** See Nitrodiphenylnaphthatriazine.
- p*-**Nitrophenylpiperazine** (SCHMIDT and WICHMANN), 1892, A., 210.
- Nitrophenylpropylamines, *di*- and *tri*-** (VAN ROMBURGH), 1886, A., 455.
- di*-**Nitrophenylpropylene.** See *di*-Nitrallylbenzene.
- tri*-**Nitrophenylpropylnitramine** (VAN ROMBURGH), 1886, A., 455.
- m*-**Nitro-2'-phenylquinoline** (V. MILLER and KINKELIN), 1885, A., 1144.
- di*-**Nitrophenylrosaniline** (NÖLTING), 1883, A., 54.
- di*-**Nitrophenylsalicylic acid** (ARBENZ), 1890, A., 893.
- m*-**Nitrophenylsantoninmethane** (BERTONI), 1892, A., 622.
- m*-**Nitro-2'-phenyltetrahydroquinoline** (V. MILLER and KINKELIN), 1885, A., 1145.
- o*-**Nitrophenyltetra-*p*-hydroxydiphenylmethane** (SIBONI), 1892, A., 621.
- p*-**Nitrophenyltetra-*m*-hydroxydiphenylmethane** (SIBONI), 1892, A., 621.
- Nitrophenyltetra-*p*-hydroxydiphenylmethanes, *m*- and *p*-** (BERTONI and ZENONI), 1892, A., 620.
- Nitrophenyltetrazolecarboxylic acid** (BLADIN), 1892, A., 1009.
- m*-**Nitrophenylthiocarbimide** and its derivatives (STEUDEMANN), 1883, A., 801; 1884, A., 306.
- Nitrophenylthiourethane** (LOSANITSCH), 1883, A., 582.
- o*-**Nitrophenyl-*p*-toluidine** (SCHÖPFF), 1890, A., 1113.
- tri*-**Nitrophenyltoluidine.** See *tri*-Nitr-anilidotoluene.
- Nitrophenyl-*p*-tolylthiocarbamides, *o*- and *m*-** (STEUDEMANN), 1884, A., 307.
- Nitrophenyltriazolecarboxylic acid** (BLADIN), 1892, A., 735.
- m*-**Nitrophenyltrimethylammonium hydroxide, bromide and *m*-nitrophenoxide** (STAEDEL and BAUER), 1886, A., 941.
- p*-**Nitrophenylurethane** and its derivatives (HAGER), 1885, A., 149.
- o,p-di*-**Nitrophenylurethane** (HAGER), 1885, A., 150; (VAN ROMBURGH), 1892, A., 712.
- p*-**Nitrophenylvaleric acid** (LELLMANN and SCHLEICH), 1887, A., 490.
- tri*-**Nitrophloroglucinol** (BENEDIKT and HAZURA), 1885, A., 554.
- di*-**Nitrophthalic acids, 5:3- and 6:3-** (MERZ and WEITH), 1883, A., 344.
- 4-Nitroisophthalic acid** (CLAUS and WYNDHAM), 1889, A., 142; (NOYES), 1889, A., 395.
- di*-**Nitroisophthalic acid** (CLAUS and WYNDHAM), 1889, A., 142.
- Nitrophthal-*m-iso*cymide** (KELBE and WARTH), 1884, A., 47.
- Nitropiperidine** (FRANCHIMONT and KLOBBIE), 1889, A., 1145.
- o*-**Nitropiperonalphenylhydrazone** (HABER), 1891, A., 706.
- 6-Nitropiperonylacrylic acid** and its salts (PERKIN), 1891, T., 153.
- 2-Nitropiperonylnitrile** (HABER), 1891, A., 706.
- o*-**Nitropiperonylvinyl methyl ketone** (HABER), 1891, A., 705.
- Nitropropanes.** See Propane.
- di*-**Nitropropane-*p*-bisazoanisole** (KEPPLER and MEYER), 1892, A., 1062.
- di*-**Nitropropanebisazo-benzene and -toluene** (KEPPLER and MEYER), 1892, A., 1062.
- Nitropropenylbenzoic acid, salts of** (WIDMAN), 1884, A., 317.
- o*-**Nitropropionanilide** (SMITH), 1885, A., 524.
- m*-**Nitropropylbenzoic acid.** See *n*-Cumenic acid, nitro-.
- Nitroisopropylcinnamic acid.** See Cumylacrylic acid, nitro-.
- Nitropropylene** (MEYER), 1892, A., 575; (ASKENASY and MEYER), 1892, A., 1062.
- Nitropropylene-*p*-azoanisole, nitropropyleneazobenzene, nitropropylene-*m*-azobenzoic acid, nitropropylene-azo-*m*-bromobenzene, nitropropyleneazo- ψ -cumene, nitropropylene-*p*-azophenetoil, and nitropropylene-*o*- and -*p*-azotoluenes** (ASKENASY and MEYER), 1892, A., 1063, 1064.
- Nitropropyleneazobenzene** (MEYER), 1892, A., 575.
- di*-**Nitropropylthiophen** (RUFFI), 1887, A., 804.
- Nitroprussides** (NORTON), 1888, A., 932; (PRUD'HOMME), 1890, A., 1387.
- formation of, without the use of nitric acid (JENSEN), 1885, A., 739.
- preparation of (PRUD'HOMME), 1891, A., 410.
- action of heat on (ETARD and BÉMONT), 1885, A., 234.
- Nitropurpurin and ψ -nitropurpurin** (BRASCH), 1891, A., 1078.
- 3-Nitropyrocatechol, behaviour of, with mordants** (V. KOSTANECKI), 1889, A., 868.
- Nitropyromecazone** (OST), 1883, A., 791.

- 2:5-*d*-Nitropyromellitic acid, and its ethylic salt (NEF), 1886, A., 64; 1888, T., 439.
- Nitropyromucic acid (PRIEBE), 1885, A., 971.
- d*-Nitropyrroline (CIAMICIAN and SILBER), 1885, A., 993; 1886, A., 718.
- Nitropyrroline- α -carboxylic acids, α - and β - (ANDERLINI), 1890, A., 66.
- Nitropyrrolinephthalide (ANDERLINI), 1889, A., 58.
- Nitropyrrolylene dimethyl ketone (CIAMICIAN and SILBER), 1886, A., 718.
- o*-Nitropyrvaldehydephenylhydrazone (BAMBERGER), 1885, A., 157.
- p*-Nitropyrvic acid phenylhydrazone (FISCHER and ACH), 1890, A., 41.
- 2:5-*di*Nitroquinol (NIETZKI), 1883, A., 465.
constitution of (NIETZKI and PREUSER), 1887, A., 574.
- tri*Nitroquinol, derivatives of (NIETZKI and KAUFMANN), 1892, A., 314.
- Nitroquinols, diethyl derivatives of (NIETZKI), 1883, A., 466; (NIETZKI and KAUFMANN), 1892, A., 314.
- Nitroquinoline. See Quinoline.
- Nitroquinoline-2'-carboxylic acid (DOEBNER and v. MILLER), 1883, A., 602.
- Nitroquinone, Etard's, probable non-existence of (HENDERSON and CAMPBELL), 1890, T., 255.
- Nitrosorcinol. See Resorcinol.
- Nitrosorcinoldisulphonic acid (ULZER), 1889, A., 510.
- Nitrosorcinolsulphonic acid and its derivatives (HAZURA), 1883, A., 1114.
- tetra*Nitrosolic acid (ACKERMANN), 1884, A., 1339.
- Nitrosalicylaldehydes (v. MILLER), 1887, A., 938; (TAEGER), 1887, A., 939; (BRADLEY and DAINS), 1892, A., 1458.
- 3- and 5-Nitrosalicylic acids (SMITH and KNER), 1886, A., 791.
- Nitrosamines (FISCHER and HEPP), 1887, A., 729, 1114.
constitution of (ERLENMEYER), 1883, A., 1103.
action of hydrogen chloride on (FISCHER and HEPP), 1887, A., 244.
- Nitrosates and their derivatives (WALLACH), 1888, A., 37.
- Nitrosilic acid, existence of (ROUSSEAU and TITE), 1892, A., 681.
- Nitrosites and their derivatives (WALLACH), 1888, A., 37.
- iso*Nitroso-. See parent substance, oxime of.
- Nitrosoacetone (v. PECHMANN), 1887, A., 1104.
sodium salt of, action of benzylic chloride on (MEYER and CERESOLE), 1883, A., 572.
- d*-Nitrosoacetone (v. PECHMANN and WEHSARG), 1889, A., 34.
- Nitrosoacetonephenylhydrazones, *mono*- and *di*- (v. PECHMANN and WEHSARG), 1889, A., 47, 34.
- d*-Nitrosoacetonephenylmethylhydrazone (v. PECHMANN and WEHSARG), 1889, A., 48.
- Nitrosoallylacetone (OTTE and v. PECHMANN), 1889, A., 1139.
- Nitrosoamidoethylpiperonylic anhydride (PERKIN), 1890, T., 1018.
- Nitroso- α -anilidopropionic acid (REISERT), 1892, A., 1456.
- p*-Nitrosoaniline (FISCHER and HEPP), 1887, A., 1114; 1888, A., 460.
action of phenylhydrazine on (FISCHER and WACKER), 1888, A., 1286.
phenylmethylhydrazone of (FISCHER and WACKER), 1889, A., 702.
- p*-Nitrosoanisidine (BEST), 1890, A., 608.
- Nitrosoanthrone (GIMBEL), 1887, A., 675.
action of nitric acid on (PERKIN), 1891, T., 641.
- ψ -Nitrosoanthrone (PERKIN), 1891, T., 645.
- Nitrosoazo-compounds, constitution of (WILLGERODT), 1892, A., 1321, 1453.
- Nitrosoazobenzene. See Azobenzene.
- Nitrosobarbituric acid (CERESOLE), 1883, A., 913.
- p*-*d*-Nitrosobenzene (NIETZKI and KEHRMANN), 1887, A., 575.
- Nitrosobenzeneazo-. See Benzeneazo-.
- Nitrosobenzenesulphonic acid, preparation and salts of (LINPRICHT), 1892, A., 475.
- d*-Nitrosobenzenylamidine (LOSSEN and MIERAU), 1888, A., 684.
- d*-Nitrosobenzenylamidinebenzenylamidine (LOSSEN and MIERAU), 1888, A., 684.
- Nitrosobenzylacetone (CERESOLE), 1883, A., 41.
- Nitroso-*o*-benzylamidoacetophenone (v. BAEYER), 1884, A., 1021.
- p*-Nitrosobenzylaniline (FISCHER and HEPP), 1890, A., 611; (BOEDDINGHAUS), 1891, A., 1205.
- Nitroso- β -benzylhydroxylamine (BEHREND and KÖNIG), 1891, A., 1031.
- p*-Nitrosobenzylmethylaniline (BOEDDINGHAUS), 1891, A., 1206.

- Nitroso- β -benzylpiperidone** (ASCHAN), 1891, A., 167.
- p*-Nitrosobenzyl-*o*- and -*m*-toluidines** (BOEDDINGHAUS), 1891, A., 1206.
- p*-Nitroso-*o*-butylaniline** (WACKER), 1888, A., 466.
- Nitrosocamphor** (CLAISEN and MANASSE), 1889, A., 619.
oxidation by, in presence of light (CAZENEUVE), 1889, A., 1203.
- Nitroso-compounds, preparation of** (WILLGERODT), 1891, A., 688.
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aromatic (GABRIEL), 1883, A., 919.
cyanhydrins of (LIPPMANN and FLEISSNER), 1885, A., 1212.
- Nitroso-*o*-cresol** (NÖLTING and KOHN), 1884, A., 1003; (GOLDSCHMIDT and SCHMID), 1884, A., 1327.
- Nitrosocresoreinol.** See Nitroso-2:4-dihydroxytoluene.
- di*-Nitroso-*n*-cumene** (KEHRMANN and MESSINGER), 1891, A., 298.
- Nitroso- ψ -cumylazoresoreinol** (v. KOSTANECKI), 1889, A., 137.
- Nitrosocyanacetic acid** (WOLFF and GANS), 1891, A., 897.
- Nitrosocyanides** (PAVEL), 1883, A., 297.
- Nitrosocyanobutyric acid** (WOLFF), 1891, A., 418.
- Nitrosodialkylanilines, periodides of** (DAFERT), 1883, A., 979.
- Nitrosodibenzoylmethane** (v. PECHMANN), 1889, A., 712; (DE NEUFVILLE and v. PECHMANN), 1891, A., 318.
- Nitrosodibenzylamine** (WALDER), 1887, A., 247.
- Nitrosodibenzylhydroxylamine** (WALDER), 1887, A., 246.
- Nitroso-1:3-diethoxybenzene** (KRAUS), 1892, A., 44.
- Nitroso-*p*-diethoxydiphenylpiperazine** (BISCHOFF and TRAFESONZJANZ), 1890, A., 1332.
- Nitrosodiethyl ketone** (CLAISEN and MANASSE), 1889, A., 585.
- Nitrosodiethylaniline cyanhydrin** (LIPPMANN and FLEISSNER), 1885, A., 1213.
- Nitrosodiethylene** (GIBBS and REICHERT), 1891, A., 1393.
- 1:3-*di*-Nitroso-2:4-dihydroxytoluene** (v. KOSTANECKI), 1888, A., 263.
- Nitroso-*p*-dimethylamidobenzoic acid and its derivatives** (BISCHOFF), 1889, A., 511.
- Nitrosodimethylamidobenzophenone** (BISCHOFF), 1889, A., 511.
- Nitrosodimethyl-*m*-amidophenol** (MÖHLAU), 1892, A., 887.
- Nitrosodimethylaniline.** See Dimethylaniline.
- Nitroso-2:5-dimethylpyrrolidine** (TAFEL and NEUGEBAUER), 1890, A., 1001.
- Nitrosodi- β -naphthylamine** (RIS), 1888, A., 58.
- Nitroso- α -dipentenonitrolaniline** (WALLACH), 1892, A., 1348.
- p*-Nitrosodiphenylamine** (FISCHER and HEPP), 1887, A., 244; (IKUTA), 1888, A., 467.
- p*-Nitrosodiphenylmethylamine** (FISCHER and HEPP), 1890, A., 614.
- p*-Nitrosodiphenyl-*m*-phenylenediamine** (FISCHER and HEPP), 1890, A., 613.
- Nitrosodipropylamine** (*dipropylnitrosamine*) (VINCENT), 1886, A., 1005.
- Nitrosodipropylaniline cyanhydrin** (MANDL), 1886, A., 793.
- Nitrosodipyromeconic acid** (OST), 1883, A., 793.
- di*-Nitrosoditoluene** (BEHREND and KÖNIG), 1890, A., 1122.
- Nitrosodi-*p*-tolyl-*di*amido-*o*-diazothiole** (HECTOR), 1890, A., 527.
- Nitrosoethoxyethylphenol** (KRAUS), 1892, A., 45.
- α -Nitroso- β -ethoxynaphthalene** (v. ILINSKI), 1886, A., 474.
- Nitrosoethyl-*o*-amidocinnamic acid** (FISCHER and KUZEL), 1884, A., 440.
- Nitrosoethylamido- β -phenylpropionic acid** (FISCHER and KUZEL), 1884, A., 1132.
- 1:4-Nitrosoethylaniline** (FISCHER and HEPP), 1887, A., 244.
- Nitrosoethylic alcohol, oxime of** (ALEXÉEFF), 1886, A., 999.
- p*-Nitrosoethyl-*o*-toluidine** (FISCHER and HEPP), 1887, A., 244.
- α -Nitrosoglutaric acid** (WOLFF), 1891, A., 419.
- p*-Nitrosoguaiacol** (BEST), 1890, A., 608.
- Nitrosoguvacine** (JAHNS), 1892, A., 740.
- iso*-Nitrososesperidene.** See Carvoxime.
- Nitrososhippurylhydrazine** (CURTIUS), 1891, A., 57.
- Nitrosohydrazonehippuric acid** (CURTIUS), 1891, A., 57.

- 3'-Nitroso-4'-hydroxycarbostryl (v. BAeyer and HOMOLKA), 1884, A., 78, 1029.
- p*-Nitroso-*m*-hydroxydiphenylamine (KÖHLER), 1888, A., 587.
- β_1 -Nitroso- γ_1 -hydroxy- α_1 -ketojuloline (KAYSER and REISSERT), 1892, A., 884.
- Nitroso-4-hydroxy-3-methylquinoline (NÖLTING and TRAUTMANN), 1891, A., 326.
- Nitroso-2'-hydroxy-4'-methyltetrahydroquinoline (FISCHER and WITTMACK), 1884, A., 1052.
- Nitroso-*m*-hydroxy-*p*-tolylamine (HATSCHKE and ZEGA), 1886, A., 455.
- o*-Nitroso-3-hydroxyquinoline (MATHÉUS), 1888, A., 965.
- μ -Nitrosoimidothiazoline (NÄF), 1891, A., 1515.
- Nitrosoindole (ZATTI and FERRATINI), 1890, A., 1293.
molecular weight of (ZATTI and FERRATINI), 1892, A., 67.
- Nitrosoindoxyl (v. BAeyer), 1883, A., 1131.
- Nitrosoketones (TREADWELL and WESTENBERGER), 1883, A., 572; (CLAISEN), 1887, A., 463; (CLAISEN and MANASSE), 1887, A., 944.
decomposition of (v. PECHMANN), 1888, A., 248.
- iso*Nitrosoketones. See Ketoximes.
- iso*Nitrosolimonene. See Carvoxime.
- Nitrosolimonenitrolaniline (WALLACH), 1892, A., 1348.
- Nitrosomalonic acid, constitution of (MEYER and MÜLLER), 1883, A., 790.
- Nitrosomethyl *isobutenyl* ketone (CLAISEN and MANASSE), 1889, A., 585.
- Nitrosomethyl ethyl ketone (CERESOLE), 1883, A., 41.
- Nitrosomethyl propyl ketone (CLAISEN and MANASSE), 1889, A., 585.
- o*-Nitrosomethylamidobenzamide (FINGER), 1888, A., 948.
- Nitroso-*o*-methylamidobenzene (MEYER), 1886, A., 63.
- Nitrosomethylamidophenylethane (HEUMANN and WIERNIK), 1887, A., 1039.
- 1:1-Nitrosomethylaniline (FISCHER and HEPP), 1887, A., 244.
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- p*-Nitrosomethyl-*o*-anisidine (BEST), 1890, A., 607.
- Nitrosomethylcarbamide (v. BRÜNING), 1888, A., 936.
- n*-Nitroso- μ -methylimidothiazoline (NÄF), 1891, A., 1516.
- μ -Nitroso-*n*-methylimidothiazoline (NÄF), 1891, A., 1516.
- Nitrosomethyl-*o*-nitro-*p*-diazobenzene chloride (*o*-nitro- ω -nitroso-*p*-diazotoluene chloride) (MEYER), 1886, A., 63.
- Nitroso-*p*-methyloxindole (MEYER), 1884, A., 48.
- 5-Nitrosomethyl-*o*-toluidine (KOCK), 1888, A., 469.
- 6-Nitrosomethyl-*o*-xylylidine (FISCHER and HEPP), 1890, A., 913; (MENTON), 1891, A., 1204.
- p*-Nitrosomethyl-*p*-xylylidine (PFLUG), 1890, A., 607.
- 1:2-*di*Nitrosanaphthalene (v. ILINSKI), 1886, A., 472.
- 1:4-*di*Nitrosanaphthalene (NIETZKI and GUITERMANN), 1888, A., 471.
- Nitrosanaphtharesorcinols, *mono*- and *di*- (v. KOSTANECKI), 1889, A., 887.
- Nitrosanaphthol. See Naphthaquinone-oxime.
- 2-Nitroso- α -naphthol-4-sulphonic acid (WITT and KAUFMANN), 1892, A., 195.
- Nitroso- β -naphthol-3'- and -4-sulphonic acids, 1- and 2-, metallic salts of (HOFFMANN), 1892, A., 346.
- 2-Nitroso- α -naphthylamine (HARDEN), 1890, A., 630.
- 1-Nitroso- β -naphthylamine (v. ILINSKI), 1884, A., 1035; (HARDEN), 1890, A., 630.
- α -Nitroso- β -naphthylethylamine (FISCHER and HEPP), 1887, A., 1114; 1888, A., 461.
- β -Nitroso- α -naphthylethylamine (HARDEN), 1890, A., 631.
- p*-Nitroso- α -naphthylethylamine (KOCK), 1888, A., 469.
- Nitroso-*orcinol* (KRAEMER), 1884, A., 1341.
- di*Nitroso-*orcinol* (GOLDSCHMIDT and STRAUSS), 1887, A., 808.
- Nitroso-oxindole (GABRIEL), 1883, A., 920; (v. BAeyer), 1883, A., 1131.
- Nitroso-oxymethylquinoline. See Oxymethylquinoline.
- Nitroso-1- and -3-oxymethylquinoline, 2- and 1-, tinctorial properties of (v. KOSTANECKI), 1891, A., 579.
- di*Nitrosopentamethylenetetramine (GRIESS and HARROW), 1888, A., 1268.
- p*-Nitrosophenol. See Quinoneoxime.
- p*-Nitrosophenylbenzylnitrosamine (BOEDDINGHAUS), 1891, A., 1206.

- Nitroso- ψ -phenylhydrazidomandelic acid** (REISSERT and KAYSER), 1891, A., 439.
- Nitrosophenylic benzoate** (WALKER), 1884, A., 1903.
- Nitroso-2'-phenylindole** (FISCHER and SCHMIDT), 1888, A., 698.
- p*-Nitrosophenylmethylnitrosamine** (FISCHER and HEPP), 1887, A., 244.
- Nitroso-2'-phenyltetrahydroquinoline** (DOEBNER and V. MILLER), 1886, A., 722.
- p*-Nitrosophenyl-*p*-toluidine** (REICHOLD), 1890, A., 609.
- Nitrosophthalimidine** (GRAEBE), 1885, A., 166.
- d*-Nitrosopiperazine** (LADENBURG), 1891, A., 1333.
- tr*-Nitrosopropane** (V. PECHMANN and WEHSARG), 1889, A., 34.
- β -Nitrosopropionic acid** (V. PECHMANN), 1891, A., 1458; (HANTZSCH), 1892, A., 1069.
- Nitrosopropiophenone** (V. PECHMANN and MÜLLER), 1888, A., 1088; (CLAISEN and MANASSE), 1889, A., 585; (GUDEMAN), 1889, A., 613.
- p*-Nitrosopropylaniline and nitrosamine of** (WACKER), 1888, A., 466.
- 4-Nitrosoresorcinol, salts of** (FÈVRE), 1883, A., 733; (WALKER), 1884, A., 1003.
- d*-Nitrosoresorcinol** (GOLDSCHMIDT and STRAUSS), 1887, A., 808.
- Nitrosoresorcinoldisulphonic acid** (ULZER), 1889, A., 510.
- Nitrosostrychnic acid** (TAFEL), 1892, A., 1012.
- Nitrososulphides** (PAVEL), 1883, A., 297.
- Nitrososulphonic acids, preparation of** (LIMPRICHT), 1892, A., 475.
- Nitrosoterpene** (GOLDSCHMIDT and ZÜRRER), 1885, A., 1210.
- p*-Nitroso- α -tetrahydronaphthylethylamine hydrochloride** (BAMBERGER and HELWIG), 1889, A., 892.
- Nitrosotetrahydroquinoline, *p*-mono- and *di*-** (ZIEGLER), 1888, A., 610.
- Nitrosotetramethylamidobenzophenone, salts of** (BISCHOFF), 1889, A., 511.
- Nitrosotetramethylphenylenediamine hydrochloride, and derivatives of** (WITT), 1885, A., 782.
- Nitrosothiomethylaniline and nitrosothionylmethylaniline** (MICHAELIS and GODCHAUX), 1891, A., 74.
- 6-Nitrosothymol** (SUTKOWSKI), 1887, A., 41.
- action of hydroxylamine on (KEHRMANN and MESSINGER), 1890, A., 1403.
- 2:5-*di*-Nitrosotoluene** (MEHNE), 1888, A., 463; (NIETZKI and GUITERMANN), 1888, A., 471.
- ω -Nitroso-*o*-toluidine** (MEYER), 1886, A., 63.
- Nitrosotoluidines** (MEHNE), 1888, A., 463.
- Nitrosotriacetone** (FISCHER), 1884, A., 1290.
- Nitrosotriphenyltriimidobenzene** (MINUNNI), 1891, A., 190.
- Nitrosotriphenylmethylaniline** (ELES), 1884, A., 1031.
- Nitrosotriphenylmethyl-*p*-toluidine** (WITTICH), 1884, A., 1032.
- Nitrosotri-*p*-tolyltriimidobenzene** (MINUNNI), 1891, A., 190.
- 2:5-*di*-Nitroso-*p*-xylene** (PELUG), 1890, A., 607.
- di*-Nitroso-*m*-xylenecarboxylic acid** (CLAUS), 1890, A., 980.
- 5-Nitroso-*p*-xylenol. See *p*-Xyloquinoneoxime.**
- di*-Nitroso-*m*-xylglyoxylic acid** (CLAUS), 1890, A., 979.
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- o*-*di*-Nitrostilbene** (BISCHOFF), 1888, A., 1094.
- p*-*di*-Nitrostilbene bromide** (ELES and BAUER), 1887, A., 151.
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- di*-Nitrostrychnine and its salts** (HARRIOT), 1883, A., 669.
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- o*-Nitrostyryl methyl ketone** (V. BAEYER and DREWSSEN), 1883, A., 341; (FISCHER and KUZEL), 1883, A., 587.
- p*-Nitrostyryl methyl ketone** (V. BAEYER and BECKER), 1883, A., 1120.
- o*-Nitrostyrylacrylic acid** (DIEHL and EINHORN), 1885, A., 1222.
- m*-Nitro- α -styrylpyridine and its reduction products** (SCHUFTAN), 1890, A., 1437.
- o*-Nitrostyrylvinyl methyl ketone** (DIEHL and EINHORN), 1885, A., 1222.
- p*-Nitrostyrylvinyl methyl ketone** (EINHORN and GEHRENEBECK), 1890, A., 162.
- p*-Nitro-*o*-sulphamidobenzoic acid** (NOYES and WILEY), 1889, A., 711.

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- p*-**Nitrotetramethyldiamidodiphenyltolylmethane** (NÖLTING), 1891, A., 727.
- di*-**Nitrotetramethylapionole** (CLAMICIAN and SILBER), 1890, A., 1295.
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- o*-**Nitrotetrethyl-diamidotriphenylmethane** (FISCHER and SCHMIDT), 1884, A., 1316.
- p*-**Nitrotetrethyl-diamidotriphenylmethane** (KAESWURM), 1886, A., 553.
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- 3-**Nitro-*o*- and -*p*-toluidine-2- and -5-sulphonic acids** (NITZKI and POLLINI), 1890, A., 502.
- 2-**Nitro-*p*-toluidine-5-sulphonic acid** and its derivatives (LIMPRICHT), 1885, A., 1233; (FOTH), 1886, A., 152.
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- o*-Nitro-*p*-tolylethylthiourethane (STEUEDEMANN), 1884, A., 307.
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- tri*Nitrotriphenylamine (HEYDRICH), 1885, A., 1213.
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- dinitro- (AUSTEN and SMITH), 1886, A., 693.
- ethers of (WILLGERODT), 1885, A., 519.
- Phenyl mercaptans, preparation of (LUSTIG), 1891, A., 1350.
- Phenyl mesityl ketone and its derivatives (LOUISE), 1883, A., 577; (ELBS), 1887, A., 942.
- Phenyl *o*-methoxytolyl ketone (KÖNIGS and CARL), 1892, A., 446.

- Phenyl methyl diketone** (*benzoylacetyl*; *phenyldiketopropene*) (V. PECHMANN and MÜLLER), 1888, A., 1087; 1889, A., 1170; (MANASSE), 1888, A., 1088.
- Phenyl methyl glycols**, two isomeric (ZINCKE), 1884, A., 1003.
- Phenyl methyl ketone**. See Acetophenone.
- Phenyl methyl ketoxime** (JANNY), 1883, A., 580.
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- Phenyl methyl oxide**. See Anisole.
- Phenyl α -naphthyl ketoxime** (SPIEGLER), 1884, A., 1182; (KEGEL), 1888, A., 1307.
- Phenyl *p*-nitrobenzyl oxide** (KUMPF), 1884, A., 1005.
- Phenyl oxide**, molecular refraction and dispersion of (GLADSTONE), 1891, T., 591.
- Phenyl pentadecyl ketone** (KRAFFT), 1887, A., 252.
- Phenyl phenylethyl ketone**. See Benzylacetophenone.
- Phenyl propyl ether**. See Propoxybenzene.
- Phenyl propyl ketone** (PERKIN), 1884, T., 181.
- Phenyl pyridyl ketone** (BERNTHSEN and METTEGANG), 1887, A., 737.
- Phenyl pyrrol ketone**. See ψ -Benzoylpyrrolone.
- Phenyl tetramethylene ketone and ketoxime** (PERKIN and SINCLAIR), 1892, T., 59, 61.
- Phenyl thienyl ketone and its α -oxime** (COMBY), 1884, A., 1168.
- Phenyl thienyl ketoximes** (HANTZSCH), 1890, A., 1263; 1891, A., 446.
- Phenyl thiotolyl ketone** (*phenyl methylthienyl ketone*) (ERNST), 1887, A., 238.
- Phenyl tolyl diketone**. See Methylbenzil.
- Phenyl tolyl ethylene ether** (SCHREIBER), 1891, A., 553.
- m*-Phenyl tolyl ketone** (*methylbenzophenone*) (SENF), 1884, A., 427.
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*d*initro- (SENF), 1884, A., 428.
- p*-Phenyl tolyl ketone**, stereochemical isomerides of (HANTZSCH), 1891, A., 68.
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- o*-Phenyl tolyl ketoximes** (SMITH), 1892, A., 490.
- m*-Phenyl tolyl ketoxime** (GOLDSCHMIDT and STÖCKER), 1891, A., 1480.
- p*-Phenyl tolyl ketoxime** (AUWERS), 1890, A., 503.
- o*-Phenyl xylyl ketone** (ELBS), 1887, A., 941.
- Phenyl *p*-xylyl ketones** (ELBS and LARSEN), 1885, A., 261; (ELBS), 1887, A., 941; (STRASSMANN), 1889, A., 883.
- α -Phenyl *m*-xylyl ketone** (ELBS), 1887, A., 941.
- α -Phenyl *m*-xylyl ketoximes** (SMITH), 1892, A., 490.
- Phenylacetaldehyde**, condensation of, with ammonia and ethylic acetate (JEANRENAUD), 1888, A., 965.
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- Phenylacetaldehydophenylhydrazone** (FISCHER and SCHMIDT), 1888, A., 699.
- Phenylacetaldoxime** (DOLLFUS), 1892, A., 1174.
- Phenylacetamide**, action of bromine on (V. HOFMANN), 1886, A., 45.
p-amido- (PURGOTTI), 1891, A., 562.
p-cyano- (MELLINGHOFF), 1890, A., 239.
m- and *p*-nitro- (PURGOTTI), 1891, A., 562.
- Phenylacetamidine**, and its derivatives (LÜCKENBACH), 1884, A., 1134.
- Phenylacetic acid** (ANSCHÜTZ and BERNs), 1887, A., 829.
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- Phenylacetic acid**, amido- (GABRIEL and BORGMANN), 1883, A., 1121.

- Phenylacetic acid**, amido-*p*-cyano- (TRAUBE), 1883, A., 193.
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- Phenylacetic anhydride**, amido- (KOSSEL), 1892, A., 468.
- Phenylacetimido-acetate** (LUCKENBACH), 1884, A., 1134.
- Phenylacetimidoethyl ether**, and its hydrochloride (LUCKENBACH), 1884, A., 1134.
- Phenylaceto-**, See also Phenylacetyl-.
- Phenylacetobromamide** (HOOGWERFF and VAN DORP), 1888, A., 1195.
- Phenylaceto-*m*-chloranilide** (BISCHLER), 1892, A., 1465.
- Phenylaceto-diethylamide** and -di-phenylamide (HAUSSKNECHT), 1889, A., 506.
- Phenylacetodiphenylhydrazide** (BÖLSING and TAFEL), 1892, A., 981.
- Phenylacetonitrile** (*benzylie cyanide*), heats of combustion and formation of (BERTHELOT and PETIT), 1889, A., 812.
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- Phenylacetonitrile** (*benzylie cyanide*), *m*-amido- (FRIEDLÄNDER), 1884, A., 737; (SALKOWSKI), 1884, A., 1176.
- Phenylacetonitrile** (*benzylie cyanide*), *p*-amido-, and its salts (FRIEDLÄNDER and MÄHLY), 1883, A., 919; (FRIEDLÄNDER), 1884, A., 737.
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- Phenylacetonitrilecarbamide** (PINNER and LIFSCHÜTZ), 1887, A., 1055.
- Phenylacetonitrile-*o*-carboxylic acid**, and its salts (WISLICENUS), 1885, A., 532.
- Phenylacetonylphenylic sulphide** (DE-LISLE), 1889, A., 489.
- Phenylacetophenylhydrazide** (BÜLOW), 1887, A., 138; (PURGOTTI), 1891, A., 59.
- Phenylaceto-*o*-toluidide** (BISCHLER), 1892, A., 1465.
- Phenylaceto-*p*-toluidide** (PURGOTTI), 1891, A., 59; (BISCHLER), 1892, A., 1465.
- Phenylacetotolylenediamide** (BISTRZYCKI and CYBULSKI), 1891, A., 694.
- Phenylacetoxo-**, See Acetoxyphe-nyl-.
- Phenylacetylacetone** (FISCHER and BÜLOW), 1885, A., 1237.
- Phenylacetylene** (HOLLEMAN), 1888, A., 261.
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- Phenylacetylenebenzoylacetic acid** (KAPF and PAAL), 1888, A., 839; 1889, A., 148.
- Phenylacetylde**, silver derivative of (LIEBERMANN and DAMEROW), 1892, A., 831.
- Phenylacetyl-**, See also Acetylphenyl-.
- Phenylacridine** (BERNTHSEN), 1883, A., 580; 1884, A., 1356; (BERNTHSEN and BENDER), 1883, A., 1133.
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- Phenylacridine**, derivatives of (BERNTSEN), 1884, A., 1356; (CLAUS and NICOLAYSEN), 1886, A., 68.
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- Phenylacrosazones**, α - and β - (FISCHER and TAFEL), 1888, A., 39.
- α -Phenylacrylic acid**. See Atropic acid.
- β -Phenylacrylic acid**. See Cinnamic acid.
- Phenyl- α -alanine**. See α -Anilidopropionic acid and Phenyl- α -amidopropionic acid.
- Phenyl- β -alanine**. See β -Anilidopropionic acid.
- Phenylalanine- p -sulphonic acid** (ERLENMEYER and LIPP), 1883, A., 993.
- Phenylallenyl-**. See Cinnamenyl-.
- Phenylallylacetoneitrile** (BUDDERBERG), 1890, A., 1142.
- Phenylallylene** (KÖRNER), 1888, A., 368.
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- Phenylallylhydrazine** (FISCHER and KNOEVENAGEL), 1887, A., 933.
- as*-Phenylallylhydrazine** (MICHAELIS and CLAESSEN), 1889, A., 1161.
- Phenylallylhydrazonophthalaldehydic acid** (ALLENDORFF), 1891, A., 1371.
- Phenylallylideneamidodimethylaniline** (NUTH), 1885, A., 784.
- Phenylallylsemithiocarbazine** (DIXON), 1890, T., 262; P., 25.
- Phenylallylsulphone** (OTTO), 1891, A., 1067.
- Phenylallyltetrazone** (MICHAELIS and CLAESSEN), 1889, A., 1161.
- Phenylamidine**. See Phenylamidoimidoethenylamidophenyl mercaptan.
- Phenylamidoacetic acid**, derivatives of (KOSSEL), 1892, A., 467.
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- Phenylamidoacetomethylanilide** (*phenylglycinmethylanilide*) (BISCHOFF), 1888, A., 726.
- Phenyl-*m*-amidobenzylamine** (BOEGMANN), 1886, A., 57.
- 1-Phenylamido-2:5-dimethylpyrroline-3:4-dicarboxylic acid** (KNORR), 1885, A., 555.
- Phenyl*di*amidoditolylmethane** (ULLMANN), 1885, A., 1236.
- Phenylamidoimidoethenylamidophenyl mercaptan** (*phenylamidine*) (V. HOFMANN), 1887, A., 1040.
- Phenyl- β -amidolactic acid** (ERLENMEYER), 1889, A., 988.
- "Phenylamidomesoxalic chloride"** (NEF), 1892, A., 1439.
- Phenylamidomethenylamido- (*carbanil-amido*)-*cresol*, -*cumenol*, - *α* - and - *β* -naphthols, and -*phenanthrol*** (JACOBSON and SCHENCKE), 1890, A., 248.
- Phenylamidomethenylamidonaphthol** (JACOBSON), 1888, A., 487.
- Phenylamidomethenylamidothiophenol** (JACOBSON and FRANKENBACHER), 1891, A., 1049.
- 6-Phenylamido-5-methyl-2:4-diethyl-*m*-diazine** (V. MEYER), 1889, A., 685.
- 4-Phenylamido- β -naphthol**, *dichloro*- (ZINCKE and KEGEL), 1889, A., 268.
- Phenylamidonaphthylcarbamide** (GOLDSCHMIDT and ROSELL), 1890, A., 616.
- Phenyl*di*-*p*-amidophenylisobutylmethane**, *m*- and *p*-nitro- (BISCHLER), 1889, A., 133.
- Phenyl-*m*-amidophenylmethylcarbamide** (*m-amido-salicylmethylcarbamide*) (LELLMANN and BENZ), 1891, A., 1215.
- Phenyl- α -amidopropionic acid**, formation of, by the action of stannous chloride on albuminoids (SCHULZE and BARBIERI), 1883, A., 1122.
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- β -Phenylamidopropionic acid**. See β -Anilidopropionic acid.
- Phenyl- α -amidopropionitrile** (ERLENMEYER and LIPP), 1883, A., 992.
- Phenylamidoquinaldine**. See Anilido-2-methylquinoline.
- Phenyl*di*-*p*-amidotolylmethane**, *m*-amido- (BISCHLER), 1889, A., 133.
 α - and β -*m*-nitro- (BISCHLER), 1889, A., 133.
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- Phenyl***di*amido-*m*-xylylmethane, *m*- and *p*-nitro- (BISCHLER), 1889, A., 134.
- Phenylamido**-. See also Anilido-.
- Phenylamine**-. See Aniline.
- Phenylamines**, compounds of benzotrichloride with (DOEBNER), 1883, A., 861.
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- Phenylammeline** [m.p. 125°] (SMOLKA and FRIEDREICH), 1890, A., 618.
- Phenylammeline** [m.p. 245°] (OTTO), 1887, A., 1034.
- 1-Phenylammoniochelidonic acid** (LIEBEN and HAITINGER), 1884, A., 1196.
- Phenylamylacetonitrile** (*phenylheptonitrile*) (ROSSOLYMO), 1889, A., 862.
- γ -Phenyl- α -isoamylbutenyllactone** (PAAL and HOFFMANN), 1890, A., 1101.
- β -Phenyl- α -isoamylbutyrolactone** (PAAL and HOFFMANN), 1890, A., 1101.
- Phenylamylcarbamide** (FREUND and LENZE), 1890, A., 1388.
- Phenylamylene** (*phenylpentylene*) and its dibromide (SCHRAMM), 1883, A., 977.
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- Phenyl- α -isoamylhydrazine** (PHILIPS), 1887, A., 1104.
- Phenylamylthiocarbamide** (FREUND and LENZE), 1890, A., 1388.
- Phenylamyl**-. See also Amylphenyl-.
- Phenylangelic acid**, formation of (SLOCUM), 1885, A., 662.
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- Phenylangelicalactones** (ERDMANN), 1890, A., 377; (FITTIG and STERN), 1892, A., 987.
- α -Phenylanisacrylonitrile** (FROST), 1889, A., 598.
- Phenyl- α -anisylcarbamide** (GOLD-SCHMIDT and ERNST), 1890, A., 1411.
- Phenylanisylidesaurin** (NEY), 1888, A., 1198.
- p*-Phenylanisylethane** (FREUND and REMSE), 1890, A., 1423.
- β -Phenyl- γ -*p*-anisylpropylamine** (FREUND and REMSE), 1890, A., 1423.
- α -Phenylanisylthiocarbamide** (FOERSTER), 1888, A., 946.
- Phenylanisyluramidoxime** (HOCH-HEIM), 1890, A., 1265.
- Phenylanthracene**, preparation of (LINEBARGER), 1892, A., 722.
- Phenylanthranilic acid** (GRAEBE and LAGODZINSKI), 1892, A., 1086.
- Phenylarabinosazone** (SCHEIBLER), 1884, A., 1287.
- Phenylarsine sulphides** (SCHULTE), 1883, A., 186.
- Phenylasparaginphenylimide** (*phenylasparagininil*) (PIUTTI), 1885, A., 796; (ANSCHÜTZ and WIRTZ), 1887, A., 934.
- Phenylaspartanil** (OSSIPOFF), 1889, A., 124.
- Phenylaspartic acid** (*anilidosuccinic acid*) (ANSCHÜTZ and WIRTZ), 1887, A., 934; (HELL and POLIAKOFF), 1892, A., 819.
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- Phenylauramine and its salts** (FEHR-MANN), 1888, A., 157.
- Phenylazo**-. See under Azo-.
- Phenylbenzenylamidine** (LOSSEN), 1892, A., 51.
- Phenylbenzenylimidoximecarbonyl** (MÜLLER), 1886, A., 875.
- Phenylbenzenyl- $\alpha\beta$ -naphthylenediamine** (FISCHER), 1892, A., 1472.
- Phenylbenzhydryl-*o*-benzoic lactone** (ELES), 1890, A., 514.
- Phenylbenzidine**, *di-o*-nitro- (SCHÖPFF), 1889, A., 773.
- Phenylbenzimidethyl ether** (LOSSEN), 1892, A., 52.
- Phenylbenzocreatine** (TRAUBE), 1883, A., 193.
- Phenylbenzoglycocylamidine** (GRIESS), 1885, A., 1227.
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- Phenylbenzoglycocylamidinecarboxylic acid** (GRIESS), 1885, A., 1227.
- Phenylbenzoglycocylamine and amido**-, and their hydrochlorides (GRIESS), 1883, A., 669.
- Phenylbenzoic acid**. See *o*-Diphenylcarboxylic acid.
- Phenylbenzo- β -naphthacridine** (CLAUS and RICHTER), 1884, A., 1359.
- p*-Phenylbenzophenone and its oxime and phenylhydrazone** (KOLLER), 1892, A., 186.
- Phenylbenzoyl**-. See Benzoylphenyl-.
- 1-Phenylbenzoyl-oximepyrazole and -phenylhydrazonopyrazole** (BALBIANO), 1890, A., 798.
- Phenylbenzylacetic acid** [b.p. 330°] (MEYER), 1888, A., 693; (v. MILLER and ROHDE), 1892, A., 1211.
- Phenylbenzylacetoxime-*o*-carboxylic acid** (GABRIEL), 1885, A., 903.

- Phenylbenzylamylecarbonyl cyanide** (*diphenylacetamide*) (ROSSOLYMO), 1889, A., 862.
- Phenylbenzyl-*o*-benzoic acid** (ELES), 1890, A., 514.
- Phenyl-*p*-benzylcarbamide** (*p*-*diphenylmethanecarbamide*) (MANN), 1889, A., 261.
- Phenylbenzylcarbamide**, *m*-nitro- (KÜHN and RIESENFELD), 1892, A., 312.
- Phenylbenzylethylthiocarbamide** (DIXON), 1891, T., 564.
- Phenylbenzylethylthiocarbamides**, isomeric (DIXON), 1892, T., 540.
- Phenylbenzylformamidine** (COMSTOCK and CLAPP), 1892, A., 708.
- Phenylbenzylhydrazine** phosphenite (MICHAELIS and OSTER), 1892, A., 1325.
- o*-amido-, and *o*-nitro- (PAAL and BODEWIG), 1892, A., 1455.
- Phenyl- α -benzylhydrazine** (PHILIPS), 1887, A., 1104; 1889, A., 1159.
- Phenyl-*p*-benzylhydrazine** (*diphenylmethanhydrazine*) (MANN), 1889, A., 261.
- Phenylbenzylhydrazine**, thionyl- (MICHAELIS and RUHL), 1892, A., 1324.
- Phenylbenzylhydroxycarbamide** (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1127; 1891, A., 559.
- Phenylbenzylhydroxythiocarbamide** (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1126; 1891, A., 558.
- m*-**Phenylbenzyl alcohol** (ADAM), 1888, A., 959.
- Phenylbenzylideneallylhydrazine** (MICHAELIS and CLAESSEN), 1889, A., 1161.
- Phenylbenzylidenebenzenylamidine** (LELLMANN and STICKEL), 1886, A., 793.
- Phenyl-*o*-benzylidenediamine** (SÖDERBAUM and WIDMAN), 1890, A., 1258.
- Phenylbenzylidene-ethylhydrazine** (PHILIPS), 1889, A., 1158.
- Phenylbenzylidenehydrazine** (REISERT), 1884, A., 1152; (PHILIPS), 1887, A., 1105.
- derivatives of (SCHROEDER), 1884, A., 1323.
- o*-nitro- (BISCHLER), 1890, A., 148.
- m*-nitro- (BISCHLER and BRODSKY), 1890, A., 150.
- thio- (RUHL), 1892, A., 1326.
- "Phenylbenzylidenehydrazine, di-cyano-"** (BLADIN), 1889, A., 702.
- 2'-Phenylbenzylideneindole** (FISCHER and SCHMIDT), 1888, A., 699.
- Phenylbenzylidenemethylhydrazine** (ELBERS), 1885, A., 535.
- 1-Phenyl-4-benzylidene-3-methylpyrazolone** (KNORR), 1887, A., 602.
- 1-Phenyl-4-benzylidene-3:5-pyrazolidone** (MICHAELIS and BURMEISTER), 1892, A., 1005.
- 3':2'-Phenylbenzylindole** (TRENKLER), 1889, A., 260.
- Phenylbenzylmethylcarbamide** (KÜHN and RIESENFELD), 1892, A., 312.
- 1-Phenyl-3-benzyl-5-methyl-pyrazole** (FISCHER and BÜLOW), 1885, A., 1237.
- Phenylbenzylmethylthiocarbamides** (DIXON), 1891, T., 562, 564; P., 85.
- Phenylbenzylnitrosamine**, preparation of (ANTRICK), 1885, A., 543.
- p*-nitroso- (BOEDDINGHAUS), 1891, A., 1206.
- Phenylbenzylisophosphine** (MICHAELIS and GLEICHMANN), 1883, A., 185.
- Phenylbenzylpropylcarbonyl cyanide** (ROSSOLYMO), 1889, A., 862.
- Phenylbenzylsemithiocarbazide** (DIXON), 1892, T., 1021.
- Phenylbenzylsulphone** (KNOEVENAGEL), 1888, A., 706; (OTTO), 1890, A., 380.
- endo*-chloro- (OTTO), 1890, A., 379.
- Phenylbenzylthiocarbamide** (DIXON), 1889, T., 300.
- asymmetrical (WERNER), 1892, P., 97.
- cyano- (FREUND and IMMERWAHR), 1890, A., 1408.
- Phenylbetaineamide chloride** (SILBERSTEIN), 1885, A., 160.
- Phenylbiazolone**, amido- (FREUND and KUHN), 1889, A., 1441.
- Phenylbismuthine dibromide** (MICHAELIS), 1887, A., 363.
- Phenylbismethyltetrahydroquinolylmethane**, amido-. See Phenyltrimethyltetrahydroquinolylmethane, amido-.
- Phenyl- γ -*di*-bromomethyl- β -bromacrylic acid**, *p*-nitro- (EINHORN and GEHRENBECCK), 1889, A., 396; 1890, A., 162.
- Phenylbromomethylactic acid**, *p*-nitro-, lactone of (EINHORN and GEHRENBECCK), 1889, A., 397.
- Phenyl dibromobutinenecarboxylic acid**, *p*-nitro- (EINHORN and GEHRENBECCK), 1889, A., 396.
- Phenyl dibromomethane** (INCE), 1885, P., 131.
- Phenyl-mono- and -di-bromomethylsulphones** (OTTO), 1890, A., 381.
- Phenyl dibromonitromethane** (GABRIEL and KOPPE), 1886, A., 693.

- Phenylisobromoparaconic acid** (FITTIG and LEONI), 1890, A., 895.
- Phenyl-*p*-bromophenylhydrazine**, *o-p*-nitro- (WILLGERODT and ELLON), 1891, A., 1362.
- Phenyl*di*bromopropenylethoxime chloride** (WOLFF), 1890, A., 42.
- Phenyl- β -bromopropionic acid**, and its derivatives (BASLER), 1884, A., 603.
- 5-chloro-2-nitro-** (EICHENGRÜN and EINHORN), 1890, A., 1127.
- o*-nitro-**, and its derivatives (EINHORN), 1884, A., 65.
- m*-nitro-** (PRAUSNITZ), 1884, A., 1175.
- β -Phenyltribromopropionic acid** (KINNICUTT and PALMER), 1884, A., 603.
- Phenyl- β - and - γ -bromopropylacetamides** (ELFELDT), 1892, A., 214.
- Phenyl- β -bromoisosuccinic acid**, *o*- and *p*-nitro- (STUART), 1886, T., 362.
- Phenyl*di*bromoisosuccinic acid** (STUART), 1886, T., 360.
- m*- and *p*-nitro-** (STUART), 1886, T., 361.
- α -Phenyltribromothiophen**, *p*-bromo- (KUES and PAAL), 1887, A., 239.
- n*-Phenylbromotrimethylene- ψ -thiocarbamide** (DIXON), 1892, T., 550.
- Phenylisobutaldehyde** (V. MILLER and ROHDE), 1890, A., 979.
- Phenylbutane**. See Butylbenzene.
- Phenylbutinene methyl ketone**. See Styrylvinyl methyl ketone.
- Phenylbutinenecarboxylic acids**, nitro- (EINHORN and GEHRENBECK), 1889, A., 271; 1890, A., 163.
- Phenylbutinenedicarboxylic acid** (STUART), 1886, T., 366.
- Phenylisobutylallyl-carbamide and -thiocarbamide** (PAAL and HEUFEL), 1892, A., 31.
- Phenylbutylamine** (*butylaniline*) (KAHN), 1886, A., 263.
- Phenylisobutylamine**. See *iso*Butylbenzene, amido-.
- Phenylbutylene** (*isobutenylbenzene*) (FITTIG and JAYNE), 1883, A., 471; (FITTIG and LIEBMANN), 1890, A., 777.
- β -Phenylbutylene**, molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
- Phenyl- α -isobutylhydrazine** (PHILIPS), 1887, A., 1104.
- Phenylisobutyl-hydrazine and -hydrazone**, thionyl- (MICHAELIS and RUHL), 1892, A., 1324.
- s*-Phenylisobutylthiocarbamide** (HECHT), 1892, A., 702.
- Phenylisobutylthiocarbimide** (PAHL), 1884, A., 1010.
- Phenylbutyric acid** (JAYNE), 1883, A., 473.
- α - and β -bromo-** (JAYNE), 1883, A., 472; (FITTIG and MORRIS), 1890, A., 891.
- $\alpha\beta$ -*di*bromo-**, decomposition of (FITTIG, OBERMÜLLER and SCHIFFER), 1892, A., 987.
- γ -chloro-** (FITTIG and MORRIS), 1890, A., 891.
- α -iodo-** (FITTIG and MORRIS), 1890, A., 891.
- Phenylisobutyric acid** (*α -methylhydrocinnamic acid*), derivatives of (EDELEANU), 1887, A., 583; 1888, T., 558; P., 55.
- $\alpha\beta$ -*di*bromo-** (A. KÖRNER), 1888, A., 368.
- derivatives of (A. KÖRNER), 1888, A., 368; (T. KÖRNER), 1889, A., 372.
- m*-chloro-** (V. MILLER and ROHDE), 1890, A., 1140.
- p*-nitro-** and **nitramido-** (EDELEANU), 1888, T., 558.
- α -Phenylbutyric acid** (*phenylethylacetic acid*) (NEURE), 1889, A., 597.
- Phenylbutyric-*o*-carboxylic acids** (ROSER), 1886, A., 243.
- Phenylbutyrolactone** (JAYNE), 1883, A., 472.
- action of halogen acids on (FITTIG and MORRIS), 1890, A., 891.
- action of halogen acids and of gaseous ammonia on (FITTIG), 1884, A., 744.
- β -bromo-** and ***isobromo-*** (FITTIG, OBERMÜLLER and SCHIFFER), 1892, A., 987.
- Phenylisobutyroxypivalic acid and anhydride** (OTT), 1885, A., 663.
- Phenylcacodyl** (*tetraphenyldiarsine*) (MICHAELIS and SCHULTE), 1883, A., 187.
- Phenylcarbamic acid**, sulpho- (NÖLTING), 1889, A., 144.
- Phenylcarbamide and its derivatives** (PINNOW), 1892, A., 460.
- action of halogenated amines on (GATTERMANN), 1886, A., 795.
- bromo-derivatives of** (BERTRAM), 1892, A., 467.
- di-p*-chloro-** (HEWITT), 1891, T., 212.
- Phenylcarbamides**, thio-, melting points of (PASCHKOWETZKY), 1892, A., 324.
- Phenylcarbamyl-**. See Carbanilido-.
- Phenylcarbazaacridine** (BIZZARRI), 1891, A., 219.
- Phenylcarbizinecarboxyl-amide and -anilide** (FREUND and GOLDSMITH), 1888, A., 1187.

- Phenylcarbizinecarboxylic acid**, amido- (FREUND and KUH), 1890, A., 1441.
- Phenylcarbizine-thiamide and -thianilide** (FREUND and GOLDSMITH), 1888, A., 1188.
- Phenylcarbylamine**. See Phenyl isocyanide.
- Phenyldichlorocarbindimethylcarbinol** (WILLGERODT and GENIESER), 1888, A., 811.
- Phenyl-*m*-chlorophenylhydrazine**, *o*-*p*-dinitro- (WILLGERODT and MÜHE), 1892, A., 454.
- Phenyl-*p*-chlorophenylhydrazine**, *o*-*p*-dinitro- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 906.
- Phenylchrysylthiocarbamide** (ABEGG), 1891, A., 731.
- α -Phenylcinchoninic acid** (2'-phenylquinoline-4'-carboxylic acid) (DOEBNER), 1887, A., 504.
homologues of (DOEBNER and GIESEKE), 1888, A., 300.
- Phenylcinnameryl-uramidethoxime and -uramidoxime** (WOLFF), 1890, A., 42.
- α -Phenylcinnamic acid**, derivatives of (CABELLA), 1884, A., 1348.
o-nitro- (OGLIALORO-TODARO and ROSINI), 1891, A., 214.
- α -Phenylcinnamonitrile** (NEURE), 1889, A., 597.
- α -Phenyl- β -cinnamylidenecrylic acid** (REBUFFAT), 1885, A., 1137.
- α -Phenyl- β -cinnamylidenecacrylonitrile** (FREUND and IMMERWAHR), 1890, A., 1408.
- Phenylcitrazonazide**, nitro- (MICHAEL), 1886, A., 699.
- 1-Phenylcomenamic acid** (MENNEL), 1885, A., 1203.
- Phenylconiine**, *o*-*p*-dinitro- (LELLMANN and JUST), 1891, A., 1245.
- Phenyl-*p*-coumaric acid**, synthesis of (OGLIALORO-TODARO), 1884, A., 176.
derivatives of (CABELLA), 1888, A., 694.
- Phenylcoumarin**, crystallography of (SCACCHI), 1885, A., 901.
- Phenylcoumarinsulphonic acids**, and their salts (CURATOLO), 1885, A., 539.
- Phenylcrotonaldehyde**, *m*-amido- (v. MILLER and KINKELIN), 1886, A., 701.
m-nitro- (v. MILLER and KINKELIN), 1886, A., 560.
base from (v. MILLER and KINKELIN), 1886, A., 701.
- Phenylcrotonaldehyde**, *m*-nitro-, product of the reduction of (v. MILLER and KINKELIN), 1886, A., 799.
- Phenylcrotonic acid** (α -methyleinnamic acid; phenylmethacrylic acid) (STUART), 1883, T., 404, 407; (RAIKOW), 1888, A., 369.
preparation of (ERDMANN), 1885, A., 528.
formation of (SLOCUM), 1885, A., 662.
nitration of, in the side chain (ERDMANN), 1891, A., 1483.
action of sulphuric acid on (ERDMANN), 1885, A., 528.
derivatives of (EDELÉANU), 1887, A., 583; 1888, T., 558; P., 55.
 β -bromo- (KÖRNER), 1888, A., 368.
 β -chloro- (PERKIN and CALMAN), 1886, T., 153; P., 139.
m-chloro- (v. MILLER and ROHDE), 1890, A., 1139.
m-nitro- (v. MILLER and ROHDE), 1890, A., 1140.
- Phenylisocrotonic acid** ($\beta\gamma$ -phenylcrotonic acid) and its derivatives (JAYNE), 1883, A., 472; (BUCHNER and DESSAUER), 1892, A., 850.
action of nitric acid on (ERDMANN), 1884, A., 906.
oxidation of (FITTIG), 1888, A., 595; (FITTIG and OBERMÜLLER), 1892, A., 986.
p-chloro- (SCHWECHTEN), 1890, A., 620; (ERDMANN and SCHWECHTEN), 1891, A., 449.
2:4- and 2:5-dichloro- (SCHWECHTEN), 1890, A., 620; (ERDMANN and SCHWECHTEN), 1891, A., 450.
3:4-dichloro- (ERDMANN), 1889, A., 265; (SCHWECHTEN), 1890, A., 620; (ERDMANN and SCHWECHTEN), 1891, A., 451.
- Phenylcrotonitrilecarbamide** (PINNER and LIFSCHÜTZ), 1887, A., 1055.
- Phenylisocroton- α -lactone** (BIEDERMANN), 1892, A., 472.
- Phenylcumazonic acid** (WIDMAN), 1884, A., 304.
- Phenylcumylthiocarbamide** (GOLDSCHMIDT and GESSNER), 1887, A., 1039.
- Phenylcyanamide** and its derivatives (v. HOFMANN), 1886, A., 233.
preparation of (BERGER), 1884, A., 1157.
action of acetylamine on (BERGER), 1885, A., 337.
- Phenylcyanethine**. See 6-Phenylamido-5-methyl-2:4-diethyl-*m*-diazine.

- Phenyleyantetrazole (BLADIN), 1887, A., 139.
- Phenylisocyanuric acid (RATHEKE), 1888, A., 591; (SMOLKA and FRIEDREICH), 1890, A., 618.
- Phenyl-*p*-cymylcarbinol (CLAUS and ELBS), 1885, A., 1065; (ELBS), 1887, A., 942.
- Phenylcysteine, bromo-, action of acetic anhydride on (BAUMANN), 1885, A., 514.
- Phenyldehydrohexone (PERKIN), 1887, T., 731.
action of hydrogen bromide on (PERKIN), 1887, T., 732.
- Phenyldehydrohexonecarboxylic acid (PERKIN), 1887, T., 728; (KIPPING and PERKIN), 1890, T., 308.
action of hydrogen bromide and of water on (PERKIN), 1887, T., 732.
p-nitro- (PERKIN), 1887, T., 736.
- Phenyldehydropentone (MARSHALL and PERKIN), 1891, T., 886.
- Phenyldi-*p*-acetamidoditolylmethane, β -*p*-nitro- (BISCHLER), 1889, A., 132.
- Phenyldiacetyl (MÜLLER and V. PECHMANN), 1889, A., 1171.
- Phenyldiisomylamine (LLOYD), 1887, A., 721; 1889, A., 700.
- Phenyldiamylhydrazine (GRIMALDI), 1891, A., 302.
- Phenyldianethoilmethane, *m*-nitro- (DE VARDA), 1891, A., 1347.
- Phenyldibenzylcarbamide (HAMMERICH), 1892, A., 1083.
- 5-Phenyl-2:4-dibenzyl-*m*-diazine, 6-amido- (WACHE), 1889, A., 684.
- as*-Phenyldibenzylthiocarbamide (DIXON), 1891, T., 567.
- Phenyldiisobutylamine (LLOYD), 1887, A., 721; 1889, A., 700.
- Phenyldiisobutylcarbamide, -guanidine and -thiocarbamide (PAHL), 1884, A., 1010.
- Phenyldi-*o*-cresolmethane (*phenyldihydroxyditolylmethane*), *m*-nitro- (SIBONI), 1892, A., 621.
- Phenyldiethyl ethylene oxide (HENRY), 1883, A., 803.
- Phenyldiethylacetamidine and its hydrochloride (LUCKENBACH), 1884, A., 1135.
- Phenyldiethylalkine. See Hydroxyethylthylaniline.
- Phenyldiethylarsine (SCHULTE), 1883, A., 186.
action of benzylidenic chloride on (HOLLE), 1892, A., 984.
- Phenyldiethylazonium iodide (PHILIPS), 1889, A., 1158.
- Phenyldiethylcarbamide (GEBHARDT), 1885, A., 383.
- Phenyldiethylenetriamine (GABRIEL), 1889, A., 1167.
- Phenyldiethylethylidenetrisulphone (LAVES), 1892, A., 613.
- Phenyldiethylformamidine (COMSTOCK and WHEELER), 1892, A., 707.
- Phenyldiethylmethenyltrisulphone, and its chloro- and bromo-derivatives (LAVES), 1892, A., 613.
- Phenyldiethylthiocarbamide derivatives (BILLETER), 1887, A., 823.
- Phenyldifurylnaphthadihydroquinoxaline (FISCHER), 1892, A., 1475.
- Phenyldiguanide derivatives (SMOLKA and FRIEDREICH), 1888, A., 830.
- 2'-Phenyl-1':3'-dihydroindazine (PAAL), 1891, A., 724.
- 2'-Phenyldihydroindole (FISCHER and SCHMIDT), 1888, A., 699.
- Phenyldihydro- β -naphthatriazine (GOLDSCHMIDT and PÖLTZER), 1891, A., 840.
- Phenyldihydro- β -phenotriazine (BUSCH), 1892, A., 734.
- Phenyldihydroquinazoline (PAAL and BUSCH), 1890, A., 72.
- Phenyldihydroquinolylmethane (EINHORN), 1886, A., 720.
- Phenylosidihydroxybutyric acid (FISCHER and STEWART), 1892, A., 1448.
- Phenylosidihydroxybutyric acid, salts of (FITTIG and OBERMÜLLER), 1892, A., 987.
- Phenyldihydroxyphenylmethanedicarboxylic acids, *o*-, *m*- and *p*-nitro- (DE VARDA), 1892, A., 621.
- ω -Phenyl- $\alpha\beta$ - and - $\omega\omega$ -diketobutane (MÜLLER and V. PECHMANN), 1889, A., 1171.
- Phenyldiketodimethylanilidopiperidinecarboxylic acid (REISSERT), 1888, A., 697.
- Phenyldiketomethylanilido-*mono*- and *di*-bromopyrrolidines (REISSERT), 1890, A., 642.
- Phenyldiketomethylanilido/*lichloro*-pyrrolidine (REISSERT), 1890, A., 643.
- Phenyl- $\alpha\delta$ -diketopiperazine (BISCHOFF), 1889, A., 1015.
- α -Phenyl- $\omega\omega$ -diketopropane. See Phenyl methyl diketone.
- Phenyldimethyl-. See also Xyl-yl-.
- Phenyldimethylacetamidine, *s*- and *as*- (LUCKENBACH), 1884, A., 1135.
- Phenyldimethylarsine, action of benzylidenic chloride on (HOLLE), 1892, A., 984.

- Phenyldimethylethylammonium iodide** (CLAUS and HOWITZ), 1884, A., 1005.
*tri-, penta-, and hepta-*iodides (GETTHER), 1887, A., 910.
- 2-Phenyl-4:5-dimethylglyoxaline** (WADSWORTH), 1890, T., 9.
- 4-Phenyl-2:6-dimethylhexahydropyridine** (*phenylthepetidine*) (BALLY), 1888, A., 65.
- 4-Phenyl-2:6-dimethylhexahydropyridine-dicarboxylic acid** (KIRCHNER), 1892, A., 1487.
- Phenyldimethyloctohydrodiquinolymethane, amido-** (V. MILLER and PLÖCHL), 1891, A., 1102.
- n-Phenyldimethylsotriazole** (BAITZER and V. PECHMANN), 1891, A., 1115.
- Phenyldimethylsotriazone** (V. PECHMANN), 1888, A., 1288.
- 1-Phenyl-3:5-dimethylpyrazole** (COMBES), 1889, A., 57.
 4-bromo- (BALBIANO), 1890, A., 1165.
- 1-Phenyl-3:5-dimethylpyrazole-4-carboxylic acid** (KNORR), 1887, A., 678.
- 1-Phenyl-3:5-dimethylpyrazole-1-sulphonic acid** (CLAISEN and ROOSEN), 1891, A., 1107.
- 1-Phenyl-2:3-dimethylpyrazolidone** (KNORR and DUDEN), 1892, A., 731.
- 1-Phenyl-2:3-dimethylpyrazolone** (*antipyrin*; *dimethylisopyrazolinone*) (KNORR), 1884, A., 1153, 1378; (KNORR and BÜLOW), 1884, A., 1382.
 See also Antipyrin.
- 1-Phenyl-3:4-dimethylpyrazolone** (KNORR and BLANK), 1884, A., 1380; (KNORR), 1887, A., 601; (PELLIZZARI), 1889, A., 518.
- 1-Phenyl-2:3-dimethylisopyrazolone** (LEDERER), 1892, A., 635.
- 1-Phenyl-2:3-dimethylpyrazolone-4-tartronyl-imide and -carbamide** (PELLIZZARI), 1889, A., 517.
- Phenyldimethylpyridazine** (KNORR), 1885, A., 995.
- Phenyldimethylpyridazinedicarboxylic acid.** See 1-Phenylamido-2:5-dimethylpyrroline-3:4-dicarboxylic acid.
- 1-Phenyl-2:6-dimethylpyridine** (*phenylbutidine*) (BALLY), 1888, A., 65.
m-amido- (LEPETIT), 1887, A., 1053.
- 4-Phenyl-2:6-dimethylpyridine-3-carboxylic acid and its derivatives** (HANTZSCH), 1885, A., 397.
- 4-Phenyl-2:6-dimethylpyridine-3:5-dicarboxylic acid** (KIRCHNER), 1892, A., 1486.
m-amido- (LEPETIT), 1887, A., 1053.
- Phenyl-β-dimethylpyridinedicarboxylic acid** (REED), 1887, A., 681.
- 1-Phenyl-1:5-dimethyl-2-pyridone** (*methyloxy-β-carboethyryl of phenylpicoline*) (HANTZSCH), 1885, A., 398.
- Phenyl-2:6-dimethylpyridone** (*phenylbutidone*) (PERKIN), 1887, T., 499; (CONRAD and GUTHZEIT), 1887, A., 501.
- Phenyl-2:6-dimethylpyridone-mono- and -di-carboxylic acids** (CONRAD and GUTHZEIT), 1887, A., 500.
- 1-Phenyl-2:5-dimethylpyrroline** (KNORR), 1887, A., 275.
- 1-Phenyl-2:5-dimethylpyrroline-3:4-dicarboxylic acid** (KNORR), 1885, A., 555.
- 2'-Phenyl-1':4'-dimethylquinolinium hydroxide** (*methyloxyquinolinium hydroxide*) (BERNTSEN and HESS), 1885, A., 559.
- Phenyldimethylquinoxaline** (MÜLLER and V. PECHMANN), 1889, A., 1171.
- Phenyldimethylsulphonediamide** (BEHREND), 1884, A., 285.
- Phenyldimethyltetrahydronaphthalene** (ERDMANN), 1885, A., 528.
- Phenyldimethylthiocarbamide** (DIXON), 1892, T., 539.
- s-Phenyldimethylthiocarbamide** (GEBHARDT), 1885, A., 383.
- Phenyldimethylthiohydantoin** (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- 1-Phenyl-4-dimethyl-2-thiomethoxyglyoxaline** (MARCKWALD, NEUMARK and STELZNER), 1892, A., 153.
- Phenyldimethylurazole** (PINNER), 1888, A., 688.
- Phenyldiureinolmethane, m-nitro-** (BERTONI), 1891, A., 1378.
- Phenyldiphloroglucinolmethane, m-nitro-** (BERTONI), 1891, A., 1378.
- Phenyldipiperidyl, p-nitro-, and o,p-dinitro-** (LELMANN and JUST), 1891, A., 1245.
- Phenyldipropyl-carbamide, -guanidine and -thiocarbamide** (FRANKSEN), 1884, A., 1008.
- Phenyldiquinolymethane, p-nitro-** (EINHORN), 1886, A., 720.
- Phenyldiresorcinolmethane, m-nitro-** (DE VAEDE and ZENONI), 1891, A., 1346.
- Phenyldithienyl** (RENARD), 1890, A., 1420.
- 4-thiomo-* and *dinitro-* (RENARD), 1890, A., 1420.
- Phenyldithienyldisulphonic acid** (RENARD), 1890, A., 1421.

- Phenyldithymolmethane (RUSSANOFF), 1889, A., 1188; 1891, A., 1235.
- Phenyl-*p*-ditolylbiuret (KÜHN and HENSCHER), 1888, A., 474.
- Phenyl-*p*-ditolylcarbamide (HAMMERICH), 1892, A., 1083.
- s*-Phenyldi-*o*-tolylguanidine (HUHN), 1886, A., 1036.
- Phenylditolylmethane, *m*-nitro- (TSCHACHER), 1887, A., 44; 1888, A., 373.
- Phenylditolylphosphine (DÖRKEN), 1888, A., 833.
- Phenyldi-*p*-tolyltriazole (BLADIN), 1890, A., 271.
- Phenyldi-*p*-xylylmethane (ELBS), 1887, A., 941.
- Phenyldixyl-β-pinacoline (ELBS), 1887, A., 941.
- Phenyldulcitosazone (FISCHER and TAFEL), 1888, A., 358.
- Phenylisodurylcarbinyl benzoate and acetate (ESSNER and GOSSIN), 1885, A., 253.
- Phenylisodurylglycollic acid (ESSNER and GOSSIN), 1885, A., 253.
- o*-Phenylene hydrogen antimonite (CAUSSE), 1892, A., 1078.
- Phenyleneamidinebenzenyl-*o*-carboxylic acid (BISTRZYCKI), 1890, A., 970.
- Phenylene-*p*-amidobenzoylurethane (HAGER), 1885, A., 150.
- Phenylenediamidodiacetic acid (*phenylcadiglycine*), hydrochloride of (ZIMMERMANN and KNYRIM), 1883, A., 797.
- Phenylenebenzenyldiamine (AUWERS and v. MEYENBURG), 1891, A., 1378.
- ethyl-derivative and nitrile of (HOWE), 1884, A., 741.
- Phenylenedibromacetylene ketone. See Ketoindene, *dibromo*.
- Phenylenecarbamide (*amidocarbamidophenol*) (KALCKHOFF), 1883, A., 1110.
- amido- (JENTZSCH), 1889, A., 46.
- Phenylenetrichlorethylene ketone. See Ketohydrindene, *trichloro*.
- Phenylenetetrachlorethylene ketone. See Ketohydrindene, *tetrachloro*.
- Phenylenetrichlorethyleneglycollic acid (ZINCKE), 1888, A., 158.
- Phenylenedichlorodibromomethylene ketone. See Ketohydrindene, *dichlorodibromo*.
- Phenylenechlorohydroxyacetylene ketone (ZINCKE), 1887, A., 728.
- Phenylene-*p*-diacetamidine (GLOCK), 1888, A., 1290.
- o*-Phenylenediacetic acid (v. BAAYER and PAPE), 1884, A., 898.
- Phenylenediacetic acids, *m*- and *p*- (KIPPING), 1888, T., 42.
- Phenylene-*p*-diacetiimidethyl ether (GLOCK), 1888, A., 1290.
- p*-Phenylenediacryl methyl ketone (LÖW), 1886, A., 461.
- o*-Phenylenediacrylic acid (PERKIN), 1886, A., 469; 1888, T., 14.
- p*-Phenylenediacrylic acid (LÖW), 1886, A., 461; (KIPPING), 1888, T., 41.
- o*-Phenylenediallylthiocarbamide (LELLMANN and WÜRTNER), 1885, A., 977.
- Phenylenediamine (*diamidobenzene*), azo- and diazo-derivatives of (WALLACH and SCHULZE), 1883, A., 583.
- o*-Phenylenediamine, preparation of (LELLMANN), 1884, A., 49.
- action of cyanogen on (BLADIN), 1885, A., 257, 785.
- action of ferric chloride on (WIESINGER), 1884, A., 1322.
- action of formaldehyde on (FISCHER and WRESZINSKI), 1892, A., 1496.
- oxidation of (FISCHER and HEPP), 1889, A., 499; 1890, A., 800.
- detection of, in *m*,*p*-tolylene-diamine (HINSBERG), 1885, A., 934.
- "*o*-Phenylenediamine, *dicyano*-" (BLADIN), 1885, A., 257, 785.
- m*-Phenylenediamine, preparation of, from resorcinol (SEYEWITZ), 1890, A., 245.
- action of carbon disulphide on (GUCCI), 1885, A., 156; 1886, A., 1023; 1888, A., 588.
- condensation of, with cinnamaldehyde (v. MILLER), 1891, A., 1103.
- physiological action of (DUBOIS and VIGNON), 1889, A., 66.
- preservation of solutions of, and its use as a reagent (DENIGÈS), 1892, A., 1124.
- d*-nitro- [m.p. 250°] (BARR), 1888, A., 823.
- [m.p. 300°] (NIETZKI and HAGENBACH), 1887, A., 477.
- tr*-nitro- (NÖLTING and COLLIN), 1884, A., 1004; (BARR), 1888, A., 823.
- p*-Phenylenediamine, preparation of (LELLMANN), 1884, A., 49.
- nitration of (LADENBURG), 1884, A., 738.
- oxidation of (v. BANDROWSKI), 1889, A., 973.
- physiological action of (DUBOIS and VIGNON), 1889, A., 66.
- salts, heat of formation of (VIGNON), 1888, A., 1012.

- p*-Phenylenediamine, *dichloro*-, hydrochloride (MÖHLAU), 1886, A., 941.
- Phenylenediamines and their derivatives (LELLMANN), 1883, A., 324.
- thermochemistry of (VIGNON), 1889, A., 1099.
- condensation of, with acetaldehyde (SCHIFF and VANNT), 1890, A., 139.
- condensation of, with butaldehydes (LASSAR-COHN), 1890, A., 138.
- action of *p*-diazobenzenesulphonic acids on (GRIESS), 1883, A., 183.
- action of ethylic chloracetate on (ZIMMERMANN and KNYRIM), 1883, A., 797.
- mono-additive products of phenylic cyanate and (LELLMANN and WÜRTHNER), 1885, A., 978.
- benzyl derivatives of (MELDOLA and COSTE), 1889, T., 590; P., 116.
- cyanic acid derivatives of (LELLMANN), 1883, A., 798.
- p*-Phenylenediaminedibenzylidenesulphonic acid, sodium salt of (KAFKA), 1891, A., 721.
- o*-Phenylenediaminesulphonic acid (NIETZKI and LERCH), 1889, A., 144.
- o*-Phenylenediamine-*p*-sulphonic acid (LERCH), 1889, A., 881.
- 2:5-Phenylenediaminethiosulphonic acid (BERNTHSEN), 1889, A., 777.
- o*-Phenylenediazosulphide (JACOBSON), 1889, A., 135.
- Phenylenediazosulphidecarboxylic acid (PFITZINGER and GATTERMANN), 1889, A., 868.
- Phenylenedibenzylidiacetic acid (MEYER and OELKERS), 1888, A., 704.
- Phenylenedicarbamides, three isomeric (LELLMANN), 1883, A., 798.
- Phenylenediethyldisulphone (OTTO and CASANOVA), 1888, A., 255.
- Phenylenediglycoccine. See Phenylenediamidodiacetic acid.
- p*-Phenylenedimethylaminediethylmethylphosphonium iodide (MICHAELIS and SCHENK), 1891, A., 436.
- p*-Phenylenedimethylaminediethylphosphine and its oxide and sulphide (MICHAELIS and SCHENK), 1891, A., 436.
- p*-Phenylenedimethylaminedimethylphosphine and its oxide and sulphide (MICHAELIS and SCHENK), 1891, A., 435.
- p*-Phenylenedimethylaminediphenylmethylphosphonium iodide and *p*-phenylenedimethylaminediphenylphosphine oxide and sulphide (MICHAELIS and SCHENK), 1891, A., 436.
- Phenylenedimethylaminephenylmethylphosphine oxide and phenylenedimethylamine-triethyl- and -trimethyl-phosphonium iodides (MICHAELIS and SCHENK), 1891, A., 435.
- m*-Phenylenedimethyldinitramine, *trinitro*- (VAN ROMBURGH), 1888, A., 1079, 1185.
- o*-Phenylenedipropionic acid (PERKIN), 1886, A., 469; 1888, T., 18.
- Phenylenedipropionic acids, *m*- and *p*- (KIPPING), 1888, T., 32, 39.
- Phenylene-ethenylamidine, *nitro*- (*nitro-ethenyl-o-phenylenediamine*) (HEIM), 1888, A., 1097.
- Phenylene-ethenylethylamidine (*ethenylethyl-o-phenylenediamine*) (HEMPFEL), 1889, A., 600; 1890, A., 612.
- Phenylene-ethyl-*o*-diamines (*amido-ethylaniline*) (HEMPFEL), 1889, A., 600; 1890, A., 612.
- Phenylene-ethyl-*m*-diamine (NÖLTING and STRICKER), 1886, A., 545.
- Phenylene-ethyl-*p*-diamine (SCHWEITZER), 1886, A., 347; (FISCHER and HEPP), 1887, A., 244.
- o*-Phenylene-ethylenediamine and its derivatives (MERZ and RIS), 1887, A., 722; (RIS), 1888, A., 468.
- Phenylene-ethylenedisulphone (OTTO and CASANOVA), 1888, A., 256.
- Phenylenehydroxylamine, *dinitro*- (WILLGERODT), 1892, A., 594.
- Phenylenedimidebutyric acid, synthesis of (KNORR), 1884, A., 1198.
- o*-Phenylenemethyldiamine (FISCHER), 1892, A., 1475.
- m*-Phenylenemethyldiamine (NÖLTING and STRICKER), 1886, A., 544.
- p*-Phenylenemethyldiamine (BERNTHSEN and GOSKE), 1887, A., 667.
- Phenylenemethylethenylamidine (FISCHER), 1892, A., 1475.
- β*-Phenylenenaphthylenemethane oxide (PHOMINA), 1890, A., 991.
- Phenylene-*β*-naphthylethenyldiamine, *nitro*- (HEIM), 1888, A., 188.
- m*-Phenyleneoxytrichlorethylene (MICHAELIS), 1886, A., 614.
- Phenylenepropenyldiamine, action of bromine on (SMITH), 1885, A., 524.
- Phenylenepropyldiamine (WACKER), 1888, A., 466.
- Phenylenepropylenediamine (RIS), 1888, A., 468.
- Phenylenepyridineketonedicarboxylic acids, α - and β - (DOENER and PETERS), 1890, A., 1008.
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- Phenylenequinaldine.** See Phenyl-2'-methylquinoline.
- m-Phenylenesuccinamic acid** (GRIESS), 1885, A., 1220.
- Phenylenetetramethyl-**. See Tetramethylphenylene-.
- o-Phenylenethiocarbamide** (LELLMANN), 1883, A., 324; 1884, A., 49.
- Phenylenethiocarbamides** (LELLMANN), 1883, A., 185; (BILLETER and STEINER), 1887, A., 366.
- Phenylenedithiocarbamides** and their derivatives (LELLMANN), 1883, A., 324; 1884, A., 49.
- o-Phenylene-p-tolylguanidine** (KELLER), 1891, A., 1470.
- p-Phenylenurethane** (GATTERMANN and WRAPPELMAYER), 1886, A., 50.
- Phenylenic carbamates**, *o*-, *m*-, and *p*- (GATTERMANN), 1888, A., 575.
- Phenylenic cyanates**, *m*- and *p*- (GATTERMANN and WRAPPELMAYER), 1886, A., 50.
- Phenylenic oxide** (VAUBEL), 1892, A., 1187.
- p-Phenylenic disulphide** (LEUCKART), 1890, A., 605.
- m-Phenylenic o-tolylcarbamate** (GATTERMANN and CANTZLER), 1892, A., 832.
- Phenylethenyldiamidoacetone** (RÜGHEIMER and MISCHER), 1892, A., 952.
- Phenylethenylamidoxime**, and its derivatives (KNUDSEN), 1885, A., 897, 1218.
- p*-cyano- (ROSENTHAL), 1890, A., 147.
- Phenylethenylamidoximebenzenesulphone** (PINNOW), 1892, A., 461.
- Phenylethenylazidine hydrochloride** (PINNER), 1884, A., 1323.
- Phenylethenylazo-**. See Azo.
- Phenylethenylphenyluramidoxime** (KNUDSEN), 1885, A., 898.
- ethyl ether (KNUDSEN), 1885, A., 1218.
- Phenylethoxynaphthalene**, diamido- (WEINBERG), 1888, A., 286.
- Phenylethylacetanilide**, β -bromo- (ELFELDT), 1892, A., 214.
- Phenylethylacetic acid** (NEURE), 1889, A., 597.
- Phenylethylallylthiocarbamide** (GEBHARDT), 1885, A., 383.
- Phenylethylamidoacetic acid** (HEUMANN), 1891, A., 837.
- Phenylethylamidobenzeneazophenylethylaniline** (LIPPMANN and FLEISSNER), 1884, A., 180.
- α -Phenylethylamine** (TAFEL), 1886, A., 940.
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- ω -Phenylethylamine** (ERLENMEYER and LIPP), 1883, A., 993.
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- as-Phenylethylcarbamide** (GEBHARDT), 1884, A., 1321.
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- Phenylethylene-carbamide** and -thiocarbamide (NEWMAN), 1891, A., 1206.
- Phenylethylenediamine** (GABRIEL), 1889, A., 1166.
- Phenylethylhydantoin** and - ψ -hydantoin (PINNER), 1888, A., 1103.
- Phenylethylhydrazine** acetoacetate, action of hydrocyanic acid on (V. MILLER and PLÖCHL), 1892, A., 1196.
- o*-amido- (HEMPEL), 1890, A., 612.
- Phenylethylhydrazine-glyoxal** and -glyoxylic acid (ELEERS), 1885, A., 535.
- Phenylethylhydrazone**, thionyl- (MICHAELIS), 1889, A., 1163.
- Phenylethyllic alcohol**, oximido- (MEYER and NÄGELI), 1883, A., 1076.
- Phenylethyllic salicylate**, *o*-nitro- (*salicyl-ethylene nitrophenol ether*) (WAGNER), 1884, A., 436.
- Phenylethylidene cyanhydrin** (ERLENMEYER and LIPP), 1883, A., 992.
- Phenylethylidenebenzenylamidoxime** (ZIMMER), 1890, A., 253.
- Phenylethylketone-*o*-carboxylic acid** (*benzoyl-ethyl-*o*-carboxylic acid*) (ROSER), 1886, A., 243.
- Phenylethylactic acid**, behaviour of (SLOCUM), 1885, A., 662.
- β -Phenyl- α -ethylactic acid** (PERKIN and STENHOUSE), 1891, P., 43.
- Phenylethylmalonamide** (FREUND and GOLDSMITH), 1888, A., 676.
- Phenylethylnitrosamine**, *p*-nitro- (MELDOLA and STREETFELD), 1886, T., 631.
- 5-Phenyl-1-ethyloxy- ψ -thiazole** (HUBACHER), 1891, A., 222.
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- Phenylethylphenylthiocarbamide** (MAINZER), 1883, A., 1106.
- Phenylethylphthalamic acid** and its salts (PIUTTI), 1884, A., 449.
- Phenylethylpropionic acid**, preparation and properties of (ANSCHÜTZ and BERNS), 1891, A., 914.

- 1:5-Phenylethylpyrazole (CLAISEN and STYLOS), 1888, A., 671.
- Phenylethylsemithiocarbazide (DIXON), 1889, T., 302.
- Phenylethylsulphone (OTTO), 1885, A., 537.
- α -Phenyl- μ -ethylthiazole (HUBACHER), 1891, A., 221.
- Phenylethylthiobiuret (TURSINI), 1884, A., 1141.
- Phenylethylthiocarbamide (NEUBERT), 1886, A., 873.
- α s-Phenylethylthiocarbamide (GERHARDT), 1884, A., 1321.
- Phenylethylthiocarbamine chloride and oxide (BILLETER), 1887, A., 822.
- Phenylethylthiocarbimide (NEUBERT), 1886, A., 873.
- Phenylethylthiohydantoin hydrochloride (NEUBERT), 1886, A., 873.
- 2-Phenyl-4-ethylthiophen (DITTRICH and PAAL), 1889, A., 258.
- Phenylethyltriazolecarboxylic acid (BLADIN), 1892, A., 637.
- Phenylethylurethane, nitro- (STEUDERMANN), 1883, A., 802.
- Phenylfenchylamine (WALLACH), 1891, A., 1088.
- Phenylformamidine, cyano- (COMSTOCK and WHEELER), 1892, A., 707.
- Phenylfuran (RUSSANOFF), 1892, A., 322.
- α -Phenylfurfuracrylonitrile (FROST), 1889, A., 598.
- p -amido-, and p -nitro- (FREUND and IMMERWAHR), 1890, A., 1408.
- Phenylfurfuryl-carbamide and -thiocarbamide (DEUTZMANN), 1892, A., 43.
- Phenylgalactosazone (SCHEIBLER), 1884, A., 1287; (FISCHER), 1885, A., 54.
- Phenylglucosazone (FISCHER), 1885, A., 53; 1886, A., 933.
- Phenylglucosazonecarboxylic acid (RODER), 1887, A., 150.
- Phenylglutaric acid (MICHAEL), 1887, A., 672.
- β -Phenylglyceric acid (α β -dihydroxyphenylpropionic acid) (LIPP), 1883, A., 994; (FITTIG and RUER), 1892, A., 986.
- Phenylglycerol (dihydroxyphenoxypropane) (LINDEMANN), 1891, A., 1198.
- Phenylglycerosazone (FISCHER and TAFEL), 1887, A., 651.
- Phenylglycidic acid (β -phenylhydroxyacrylic acid) (PLÖCHL), 1884, A., 604; 1887, A., 254; (ERLENMEYER), 1887, A., 142, 1046; (WISLICENUS), 1887, A., 587.
- Phenylglycidic acid (β -phenylhydroxyacrylic acid), synthesis of (ERLENMEYER), 1889, A., 990.
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- o - and p -nitro- (LIPP), 1887, A., 142.
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- o -Phenylglycincarboxylic acid. See Carboxyanilidoacetic acid.
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- "Phenylglycocinesulphonic acid" (ZEHENTER), 1885, A., 55, 1235.
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- 1-Phenylglyoxaline (WOHL and MARCKWALD), 1892, A., 624.
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- 2-Phenylglyoxalinedicarboxylic acid (MAQUENNE), 1890, A., 1440.
- Phenylglyoxalmethylphenylosazone (CULMANN), 1888, A., 1287.
- 1-Phenylglyoxalylmercaptide (WOHL and MARCKWALD), 1892, A., 624.
- Phenylglyoxime (SCHRAMM), 1884, A., 52; (STRASSMANN), 1889, A., 610.
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- Phenylglyoxylic acid, formation of, from benzoic cyanide (v. BUCHKA), 1887, A., 487.
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- Phenylglyoxylic acid**, phenylhydrazone and phenylethylhydrazone of (ELBERS), 1885, A., 534.
- Phenylglyoxylic acid**, *o*-amido-. See Isatinic acid.
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- o*-nitro-**, hydrazone, isomeric form of (KRAUSE), 1891, A., 302.
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- o*- and *m*-nitro-**, hydrazone (FEHRLIN), 1890, A., 1117.
- Phenylglyoxylic lactim**, *o*-amido-. See Isatin.
- Phenylglyoxylic-*o*-toluidide** (NEF), 1892, A., 1442.
- Phenyl-group**, negative nature of the (MEYER), 1887, A., 572.
- Phenylguanazole** (PELLIZZARI), 1892, A., 356.
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- i*-Phenylgulosazone** (FISCHER and CURTISS), 1892, A., 823.
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- Phenylhalogenacrylic acids** (ERLEN-MEYER), 1883, A., 196.
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- Phenylhexamethylene**, derivatives of (KIPPING and PERKIN), 1889, P., 161; 1890, T., 304.
- Phenylhexamethylene methyl ketone and ketoxime** (KIPPING and PERKIN), 1890, T., 320.
- Phenylhexamethylenecarboxylic acid** (KIPPING and PERKIN), 1890, T., 316, 322.
- Phenylhexamethylenedicarboxylic acid** (KIPPING and PERKIN), 1890, T., 315.
- s*-Phenyl- ψ -hexylcarbamide** (FREUND and HERRMANN), 1890, A., 474.
- Phenylhexyldihydro- β -naphthatriazine** (GOLDSCHMIDT and POLTZER), 1891, A., 841.
- Phenylisohexylene** and its dibromide (SCHRAMM), 1883, A., 977.
- s*-Phenyl- ψ -hexylthiocarbamide** (FREUND and HERRMANN), 1890, A., 474.
- Phenylhexyltriazolecarboxylic acid** (BLADIN), 1892, A., 597.
- Phenylhippuric acid** (KOSSEL), 1892, A., 468.
- Phenylhomoitamalic acid**. See Hydroxybenzylpyrotartaric acid.
- Phenylhomoparaconic acid**, and its salts (PENFIELD), 1883, A., 473.
- Phenylisohomoparaconic acid** (FITTIG), 1888, A., 252.
- α -Phenylhydantoic acid** (PINNER), 1888, A., 1103.
- α -Phenylhydantoic amide** (PINNER and SPILKER), 1889, A., 706.
- α -Phenylhydantoin** (PINNER), 1888, A., 1102.
- γ -Phenylhydantoin** (GUARESCHI), 1892, A., 828.
- ψ -Phenylhydantoin** (PINNER), 1888, A., 1102.
- Phenylhydracrylic acid**. See β -Hydroxyphenylpropionic acid.
- Phenylhydrazides**, formation of (FISCHER and PASSMORE), 1890, A., 152.
- Phenylhydrazidoacetic acid** (ELBERS), 1885, A., 535.
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- α -Phenylhydrazidobutyramide** (v. MILLER and PLÖCHL), 1892, A., 1192.
- α -Phenylhydrazidobutyric acid** (JAPP and KLINGEMANN), 1888, T., 538.
- as*-Phenylhydrazidobutyric acid** (LEDERER), 1892, A., 635.
- α -Phenylhydrazidoisobutyric anhydride** (REISSERT), 1884, A., 1153.
- α -Phenylhydrazidoisobutyrimide and isobutyronitrile** (REISSERT), 1884, A., 1152.
- Phenylhydrazido-*o*- and -*p*-cresetols** (NÖLTING and WERNER), 1891, A., 212.
- ψ -Phenylhydrazido- α -hydroxybutyric acid**, and its derivatives (REISSERT and KAYSER), 1890, A., 155.
- ψ -Phenylhydrazidomandelic acid** (REISSERT and KAYSER), 1890, A., 156.
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- 2'-Phenylhydrazido-4'-methylquinoline** (2'-phenylhydrazolopidine) (EPHRAIM), 1892, A., 1488.
- Phenylhydrazidophenylacetic acid** (ELBERS), 1885, A., 534; (REISSERT and KAYSER), 1891, A., 438.
- Phenylhydrazidophenylbiazolon** (FREUND and KUH), 1890, A., 1441.
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- α -Phenylhydrazidopropionic acid** (FISCHER and JOURDAN), 1884, A., 53; (v. MILLER and PLÖCHL), 1892, A., 1196; (REISSERT), 1892, A., 1456.
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- Phenylhydrazinesulphonic acid**, *di*-bromo- (LIMPRICHT), 1889, A., 398.
- Phenylhydrazine-*o*-sulphonic acid**, 5-amido-, and 5-nitro- (LIMPRICHT), 1885, A., 1216.

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- o*-amido-, and *o*-nitro- (NIETZKI and LERCH), 1889, A., 114; (LERCH), 1889, A., 881.
- Phenylhydrazinesulphonic acids**, *o*- and *p*-, and their salts (GALLINER and V. RICHTER), 1886, A., 237.
- Phenylhydrazones** (RUDOLPH), 1889, A., 251; (FISCHER and ACH), 1890, A., 40.
- Phenylhydrindone** (V. MILLER and ROHDE), 1892, A., 1220; (LIEBERMANN and HARTMANN), 1892, A., 1228.
- Phenylhydroacridine** and its derivatives (BERNTHSEN and BENDER), 1883, A., 1134, 1135.
- Phenylhydrocarbazacridine** (BIZZARRI), 1891, A., 220.
- Phenylhydrocarhostyryl** (OGLIALORO-TODARO and ROSINI), 1891, A., 214.
- α -Phenylhydrocinamic acid**. See Phenylbenzylacetic acid.
- Phenylhydrocoumarin** (LIEBERMANN and HARTMANN), 1891, A., 1484.
- Phenylhydrouracil** (HOOGWERFF and VAN DORP), 1891, A., 197.
- Phenylhydroxybenzoic acid**. See Phenylsalicylic acid.
- Phenyl-1:2-hydroxylamine**, 4:6-*d*-nitro- (WILLGERODT), 1891, A., 638; 1892, A., 594.
- Phenylisohydroxybutyrolactone** (FITTING and OBERMÜLLER), 1892, A., 987.
- 2'-Phenyl-4'-hydroxy-2-ketotetrahydroquinazoline** (PINNER), 1890, A., 70.
- Phenylhydroxy-**. See also Hydroxy-phenyl-.
- Phenylic salts**, action of sodium mercaptide on (SEIFERT), 1885, A., 1057.
- acetate, action of chlorine and bromine on (SEELIG), 1889, A., 599.
- crystallised (PERKIN), 1889, P., 106.
- o*-acetate (HEIBER), 1892, A., 308.
- acetylsalicylate and its nitro-derivatives (KNEBEL), 1891, A., 915.
- amidoethylic acetate (ELFELDT), 1892, A., 214.
- anthranilate (SCHMIDT), 1888, A., 371.
- benzenesulphonate (OTTO), 1886, A., 883; (GEORGESCU), 1891, A., 668.
- Phenylic benzenethiosulphonate** (ESCALES), 1885, A., 798.
- benzoate, *tribromo*-, and its nitro-derivative (DACCOMO), 1885, A., 890.
- o*-, *m*-, and *p*-chloro- (MOSSO), 1888, A., 456; (DACCOMO), 1892, A., 308.
- chlorodibromo- (GARZINO), 1890, A., 1108.
- o*-, *m*-, and *p*-nitro- (NEUMANN), 1886, A., 350, 939; 1887, A., 254.
- o*-nitro-, reduction of (BÖTTCHER), 1885, A., 658.
- nitroso- (WALKER), 1884, A., 1003.
- bromide. See Benzene, bromo-.
- butyrate (PERKIN), 1889, T., 547.
- carbamate (GATTERMANN), 1888, A., 575.
- carbonate, reactions of (ECKENROTH and RÜCKEL), 1890, A., 750.
- dibromo*-, *dinitro*-, and nitramido- (LÖWENBERG), 1886, A., 789.
- chloride. See Benzene, chloro-.
- trichlorophosphate* (LAMPERT), 1886, A., 616.
- cinnamate (ANSCHÜTZ and WIRTZ), 1885, T., 901; (ANSCHÜTZ), 1885, A., 1064.
- action of heat on (ANSCHÜTZ and WIRTZ; ANSCHÜTZ), 1885, A., 1064.
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- cyanate, preparation of (HENTSCHEL), 1884, A., 1002; (KÜHN and LIEBERT), 1890, A., 962.
- synthesis by means of (LEUCKART), 1890, A., 759.
- action of benzene and its homologues on (LEUCKART), 1885, A., 773.
- action of hydroxylamine on (FISCHER), 1889, A., 1164.
- action of, on phenols and phenol ethers (LEUCKART and SCHMIDT), 1885, A., 1224.
- action of, on polyhydric alcohols (TESMER), 1885, A., 774; 1886, A., 49.
- action of, on polyhydric and certain monohydric alcohols and phenols (SNAPE), 1885, T., 770.
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 $\Delta^{1:4}$ -dihydroterephthalate (v. BAeyer and HERB), 1890, A., 1132.
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o-amido-, and *o-nitro-* (LELLMANN and BONHÖFFER), 1887, A., 936.
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 ethylphenyl-*mono-* and *-di-*thiocarbamates (BILLETER and STROHL), 1888, A., 365.
 ethylxanthate and *p-amido-* (LEUCKART), 1890, A., 603.
o-formate (TIEMANN), 1883, A., 340.
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 $\Delta^{2:5}$ -trans-hexahydroterephthalate (v. BAeyer and HERB), 1890, A., 1134.
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Phenylic hydroxyisophthalate (HÄHLE), 1891, A., 1369.
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 α -naphthyl sulphide (ZIEGLER), 1890, A., 1292.
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 nitrobenzoates, *trichloro-* and *trichloronitro-* (DACCOMO), 1885, A., 890.
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 phenylmethylecarbamate, and nitro- and amido- (LELLMANN and BENZ), 1891, A., 1214.
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- Phenylic succinate**, decomposition of, by heat (ANSCHÜTZ and WIRTZ), 1885, T., 899; (ANSCHÜTZ), 1885, A., 1065.
- sulphide, chloro-** (MICHAELIS and GODCHAUX), 1891, A., 715.
- dinitro-** (AUSTEN and SMITH), 1886, A., 693.
- disulphide, o-amido-** (v. HOFMANN), 1887, A., 823.
- m-nitro-** (LEUCKART), 1890, A., 604.
- p-nitro-** (WILLGERODT), 1885, A., 519.
- tetrasulphide** (OTTO), 1887, A., 923.
- Δ^1 -tetrahydrotetraphthalate** (v. BAEYER and HERB), 1890, A., 1133.
- $\Delta^{2,3}$ -trans-tetrahydrotetraphthalate** (v. BAEYER and HERB), 1890, A., 1134.
- o-thioacetate** (LAVES), 1892, A., 612.
- thioallophanate** (GATTERMANN), 1889, A., 575.
- thiobenzenesulphonate**, reduction of (OTTO and RÖSSING), 1887, A., 954.
- thiobenzoate, α -dinitro-** (WILLGERODT), 1885, A., 519.
- thiocarbonate** (BERGREEN), 1888, A., 445.
- dithiocarbonate** (LÖWENBERG), 1886, A., 789.
- chloro-** (DACCOMO), 1892, A., 306, 307.
- thiocyanate** (THURNAUER), 1890, A., 749.
- diamido-** (AUSTEN), 1889, A., 700.
- dinitro-** (AUSTEN and SMITH), 1886, A., 693.
- thiodi- β -naphthylcarbamate** (PASCHKOWETZKY), 1892, A., 166.
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- trithioformate**, oxidation of (LAVES), 1890, A., 988.
- tolylcarbamates, o- and p-** (ECKENROTH and RÜCKEL), 1890, A., 750.
- p-nitryl disulphide** (OTTO and RÖSSING), 1887, A., 242.
- xanthate, chloro-** (DACCOMO), 1892, A., 308.
- Phenylimidoacetone, oxime of** (KNORR), 1884, A., 1368; (HOLLEMAN), 1892, A., 985.
- Phenylimidoalloxan** (PELLIZZARI), 1888, A., 682.
- Phenylimidobenzil** (BANDROWSKI), 1889, A., 147.
- Phenylimidobenzoin** (VOIGT), 1886, A., 887.
- action of hydrocyanic acid on** (v. MILLER and PLOCHL), 1892, A., 1196.
- Phenylimidobenzoin, bromo-** (VOIGT), 1886, A., 888.
- Phenylimidobromacetic acid** (KNORR and ANTRICK), 1885, A., 273.
- Phenyl- β -imidobutyric acid**, synthesis of (KNORR), 1884, A., 1198.
- action of nitrous acid on** (KNORR), 1884, A., 1368.
- Phenylimidocarbonyl chloride** (NEF), 1892, A., 1439.
- Phenylimidocyanamide** (PELLIZZARI and TIVOLI), 1892, A., 1323.
- Phenylimidodiacetic acid** (BISCHOFF and NASTVOGEL), 1889, A., 1013.
- Phenylimidodiacetic anhydride** (BISCHOFF and HAUSDÖRFER), 1892, A., 1334.
- Phenylimidodiacetic anilide and dianilide** (HAUSDÖRFER), 1889, A., 1014.
- Phenylimidodiphenylguanidine** (MARCKWALDT), 1889, A., 393.
- Phenylimidoformic chloride hydrochloride** (NEF), 1892, A., 1440.
- Phenylimidoguanidine** (PELLIZZARI), 1891, A., 1471.
- action of ethylic acetoacetate on** (PELLIZZARI), 1891, A., 1472.
- Phenylimidomethylpropionylacetone nitrile** (BOUVEAULT), 1891, A., 52.
- Phenylimidomucocohydroxy-bromic and -chloric acids** (HILL and PALMER), 1888, A., 452.
- Phenylimidophenyl** (SEIFERT), 1890, A., 490.
- Phenylimidopropionic acid (anilpyruvic acid)** (BÖTTINGER), 1883, A., 1128; 1891, A., 1054.
- condensation of** (BÖTTINGER), 1892, A., 54.
- bromo-derivative of** (BÖTTINGER), 1883, A., 1128.
- Phenylimidopropionic chloride** (NEF), 1892, A., 1440.
- Phenylimidopropionitrile** (*benzoyl-methylic cyanide, imido-*) (HOLTZWART), 1889, A., 683.
- α -Phenylimidopropionitrile** (ERLENMEYER and LIPP), 1883, A., 992.
- Phenylimidopyrrolypyruvic acid and anhydride** (ANGELI), 1890, A., 1243.
- μ -Phenylimidothiazoline** (NÄF), 1891, A., 1517.
- 2'-Phenylindazine** (PAAL), 1891, A., 723.
- p-chloro-** (PAAL), 1891, A., 724.
- 1'-Phenylindazine-3'-carboxylic acid, nitro-**, action of stannous chloride on (SCHULHÖFER), 1891, A., 1231.
- 1'-Phenyl- ψ -indazine-3'-carboxylic acid, nitro-** (MEYER), 1889, A., 517.

- 1'-Phenylindole (PFÜLF), 1887, A., 956.
- 2'-Phenylindole and its derivatives (ETARD), 1883, A., 179; (PICTET), 1886, A., 711; (FISCHER and SCHMIDT), 1888, A., 698; (BISCHLER), 1892, A., 1465.
- amido-, and nitroso- (FISCHER and SCHMIDT), 1888, A., 698.
- chloro- (BISCHLER), 1892, A., 1466.
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- 3'-Phenylindole (FISCHER and SCHMIDT), 1888, A., 958.
- reactions of (INCE), 1890, A., 57.
- Phenylindoles, formation of, by isomeric change (INCE), 1889, P., 90.
- 1'-Phenylindole-3'-carboxylic acid, synthesis of (FISCHER and HESS), 1884, A., 1181.
- Phenylinduline (FISCHER and HEPP), 1891, A., 1046.
- action of acetic acid on (FISCHER and HEPP), 1892, A., 341.
- amido- (FISCHER and HEPP), 1891, A., 1046.
- action of sulphuric acid on (FISCHER and HEPP), 1892, A., 341.
- Phenyl- ψ -isatin (PFÜLF), 1887, A., 956.
- Phenylitaconic acid (FITTIG and LEONI), 1890, A., 894; (FITTIG and RÖDERS), 1890, A., 895.
- Phenylitamalic acid. See Hydroxyphenylpyrotartaric acid.
- Phenylum-. See Phenylammonium.
- Phenylizinedihydroxytartaric acid (ZIEGLER and LOCHER), 1887, A., 578.
- m-nitro- (BISCHLER and BRODSKY), 1890, A., 151.
- 3'-Phenyl-2'-ketodihydroquinazoline (SÖDERBAUM and WIDMAN), 1890, A., 178.
- 3'-Phenyl-4'-ketodihydroquinazoline (PAAL and BUSCH), 1890, A., 72; (PAAL and KRECKE), 1892, A., 81.
- 3'-Phenyl-4'-ketodihydroquinazoline-2'-carboxylic acid (PAAL and KRECKE), 1892, A., 81.
- 3'-Phenyl-4'-ketohydrazodihydroquinazoline (PAAL and BUSCH), 1890, A., 72.
- Phenylketohydroxybutyric acid (FISCHER and STEWART), 1892, A., 1448.
- Phenylketohydroxydimethylanilidotetrahydropyridinecarboxylic lactone, real nature of (ANSCHÜTZ), 1891, A., 741.
- Phenylketopentene. See Phenylmethylfurfuran.
- 1-Phenylketopyrazolone 4-phenylhydrazone (KNORR), 1888, A., 724.
- 1-Phenylketopyrazolone-3-carboxylic acid 4-phenylhydrazone (KNORR), 1888, A., 724.
- 3'-Phenyl-2'-ketotetrahydroquinazoline and its derivatives (SÖDERBAUM and WIDMAN), 1889, A., 973; (NIETZKI), 1890, A., 178; (PAAL and BODEWIG), 1891, A., 944; (BUSCH), 1892, A., 1495.
- Phenyl- α -lactic acid, β -amido- (ERLENMEYER), 1889, A., 988.
- p-amido- (ERLENMEYER and LIPP), 1883, A., 994.
- nitro-, nitrate of (ERLENMEYER and LIPP), 1883, A., 993.
- Phenyl- β -lactic acid. See β -Hydroxyphenylpropionic acid.
- Phenyl- β -lactic methyl ketone. See β -Hydroxyphenylpropionyl methyl ketone.
- Phenyllactimide (ERLENMEYER and LIPP), 1883, A., 993.
- Phenyl- α -lactonitrile (ERLENMEYER and LIPP), 1883, A., 992.
- Phenyllactosazone (FISCHER), 1885, A., 54; 1887, A., 567.
- Phenyl- β -lacturamic acid (HOOGWERFF and VAN DORP), 1891, A., 197.
- Phenyllepidineamine. See 2'-Anilido-4'-methylquinoline.
- α -Phenyllevulinic acid (FITTIG and STERN), 1892, A., 988.
- γ -Phenyllupetidine. See 4-Phenyl-2:6-dimethylhexahydropyridine.
- Phenyllutidine. See 4-Phenyl-2:6-dimethylpyridine.
- Phenyllutidone. See Phenyl-2:6-dimethylpyridone.
- Phenylmaleic acid and anhydride (ALEXANDER), 1890, A., 1136.
- Phenylmalic acids, α - and β - (α - and β -hydroxy- α -phenylsuccinic acids) (ALEXANDER), 1890, A., 1135.
- Phenylmalonamic acid. See Malonanilic acid.
- Phenylmalonamide (FREUND), 1884, A., 728.
- Phenylmaltosazone (FISCHER), 1885, A., 54; 1887, A., 567.
- Phenylmannosazone (FISCHER and HIRSCHBERGER), 1888, A., 934.
- Phenylmelamine (KLASON), 1886, A., 523.
- Phenylmelamines and their derivatives: normal-, iso-, and asymmetric-compounds (v. HOFMANN), 1886, A., 233.
- Phenylmelilotic acid, synthesis of (SARDO), 1884, A., 176.
- Phenylmercaptan-benzoylformic acid and the action of hydrogen chloride on (BAUMANN), 1885, A., 750.

- Phenylmercaptomethylmercaptan**, amido- (JACOBSON and FRANKENBACHER), 1891, A., 1048.
- Phenylmesitylenylcarbinol** (*phenyl-trimethylphenylcarbinol*) and its derivatives (LOUISE), 1886, A., 542.
- Phenylmethaneazobenzene**, *o*-nitro- (PAAL and BODEWIG), 1892, A., 1456.
- Phenylmethenylazidine** (FISCHER), 1889, A., 1164.
- Phenylmethenylhydroxyamidine** (*hydroxyphenylformamidine*) (COMSTOCK and CLAPP), 1892, A., 708.
- Phenylmethoxytolylethanes** (KOENIGS and CARL), 1892, A., 446.
- Phenylmethylacridine** (BONNA), 1887, A., 928.
ethoxide and hydroxide (DECKER), 1892, A., 881.
- Phenylmethylacrylic acid**. See Phenylcrotonic acid.
- Phenylmethylallylpyrroline** (LEDERER and PAAL), 1886, A., 75.
- Phenylmethylallylpyrrolinecarboxylic acid**, and its ethylic salt (LEDERER and PAAL), 1886, A., 75.
- Phenylmethylamidobenzeneazotri-bromobenzene** (SILBERSTEIN), 1883, A., 662.
- Phenylmethylamidobenzeneazodiphenylmethylamine** (LIPPMANN and FLEISSNER), 1884, A., 180.
- Phenylmethylamidobenzenephosphinic acid and chloride** (MICHAELIS and SCHENK), 1891, A., 437.
- α -Phenyl- μ -methylamidothiazole** (TRAUMANN), 1889, A., 415.
- Phenylmethylanthracene** (v. HEMILIAN), 1884, A., 322.
- Phenylmethylantranol** (v. HEMILIAN), 1884, A., 322; 1887, A., 266.
- Phenylmethylbiazoline** (FREUND and KUH), 1890, A., 1112.
- Phenyl- α -methyl- β -bromacrylic acid** (KÖRNER), 1889, A., 372.
- α s-Phenylmethylcarbamide** (GEBHARDT), 1884, A., 1321.
- Phenylmethylchlorobiazolone** (FREUND and KUH), 1890, A., 1111.
- Phenylmethylchloroformamide**, compounds from (LELLMANN and BENZ), 1891, A., 1214.
- 2'-Phenyl-1- and -3-methyl-4'-cinchonic acids** (DOEBNER and GIESEKE), 1888, A., 300.
- Phenyl- α - and - β -methylisocrotonic acids** (*phenylpentenoic acid*) (FITTIG and LIEBMANN), 1890, A., 775.
- Phenylmethylcyantriazole** (BLADIN), 1887, A., 138.
- 2-Phenyl-6-methyl-*m*-diazine**, amido-, and diamido- (PINNER), 1887, A., 1054.
- Phenylmethyldihydro- β -naphthatriazine**, and methiodide of (GOLDSCHMIDT and POLTZER), 1891, A., 840, 841.
- 3'-Phenyl-2'-methyldihydroquinazoline** (PAAL and KRECKE), 1890, A., 1443; 1892, A., 81.
- Phenylmethyldihydroxyglutaric acid** (*dihydroxyphenylmethylglutaric acid*) (CARLSON), 1892, A., 1471.
- Phenylmethyldiphenylazimethylene** (CURTIUS and PELUG), 1892, A., 457.
- Phenylmethylenethydrazine** (CURTIUS and PELUG), 1892, A., 456.
- Phenylmethylethylalkine**. See Hydroxyethylmethylamine.
- Phenylmethylethylenediamine** (NEWMAN), 1891, A., 1208.
- n*-Phenylmethylethylsotriazole** (BALTZER and v. PECHMANN), 1891, A., 1116.
- 1-Phenyl-4-methyl-3-ethylpyrazole** (CLAISEN and MEYEROWITZ), 1890, A., 358.
5-amido- (BOUVEAULT), 1891, A., 52.
- 1-Phenyl-4-methyl-5-ethylpyrazole platinochloride** (BALBIANO), 1892, A., 885.
- 1-Phenyl-3-methyl-4-ethylpyrazolone** (KNORR and BLANK), 1884, A., 1380.
- Phenylmethylethylthiocarbamide** (GEBHARDT), 1885, A., 383; (BILLETER), 1887, A., 823.
- Phenylmethylfumaramic acid** (PIUTTI), 1886, A., 792.
- Phenylmethylfumaride** (PIUTTI), 1886, A., 621.
- Phenylmethylfurfuran and its derivatives** (PAAL), 1885, A., 248; (SCHLOESSER), 1889, A., 595.
- Phenylmethylfurfurancarboxylic acid** (PAAL), 1885, A., 249.
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- Phenylmethylfurfurandicarboxylic acid** (*phenylanthraquinonic acid*) (FITTIG and SCHLOESSER), 1888, A., 1089; (SCHLOESSER), 1889, A., 595.
- Phenylmethylglucosazone** (FISCHER), 1889, A., 484.
- Phenylmethylglycoluric acid**. See Phenylmethylamidobenzoic acid.
- 2:5-Phenylmethylglyoxaline** (LEWY), 1888, A., 1102.
- Phenylmethylhydantoic acid** (KÜHN), 1885, A., 261.
- Phenylmethylhydantoin** (PINNER), 1888, A., 1103.

- Phenylmethylhydrazine** and its salts (ERLENMEYER), 1883, A., 1103; (TAFEL), 1885, A., 1061; (FISCHER), 1887, A., 138.
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- Phenylmethylhydrazinephenylglyoxylic acid** (ELBERS), 1885, A., 535.
- Phenylmethylhydrazinesulphonic acid** (PFÜLF), 1887, A., 934.
- 1:5-Phenylmethylhydroisopyrazolone** (LEDERER), 1892, A., 635.
- 2'-Phenyl-3'-methylhydroquinoline**, *m*-amido- (v. MILLER and KINKELIN), 1886, A., 561.
- Phenylmethylhydroxyanthranol** (v. HEMILIAN), 1887, A., 267.
- Phenylmethylimidobiazole** (FREUND and KUH), 1890, A., 1442.
- α -Phenylmethyl- μ -imidothiazoline** (TRAUMANN), 1889, A., 415.
- 2'-Phenyl-1-methylindole** (BISCHLER), 1892, A., 1465.
- 2'-Phenyl-3-methylindole** (BISCHLER), 1892, A., 1466.
- 2'-Phenyl-1'-methylindole** (DEGEN), 1887, A., 149; (STAEDER), 1888, A., 1093.
- 3'-Phenyl-1'-methylindole** (INCE), 1890, A., 57.
- 3'-Phenyl-2'-methylindole** (TRENKLER), 1889, A., 260.
- 3':2'-Phenylmethyl-4'-ketodihydroquinazoline** (PAAL and KRECKE), 1892, A., 81.
- 1-Phenyl-3-methylketopyrazolone-4-hydrazone** (KNORR), 1888, A., 724.
- Phenylmethylketoxime-*o*-carboxylic acid**, anhydride of (GABRIEL), 1883, A., 1128.
- β -Phenyl- α -methylactic acid**. See Hydroxy- β -phenyl- α -methylpropionic acid.
- Phenylmethylmethylenebisthioglycollic acid** (BONGARTZ), 1888, A., 479.
- 1-Phenyl-3-methyl-4-methylenehydrazine** (CURTIUS and PFLUG), 1892, A., 457.
- 1-Phenyl-3-methyl-4-methylenepyrazolone** (PELLIZZARI), 1889, A., 518.
- Phenyl-*ald*-methyl-naphthatriazine**, *az*-*p*-nitro- (MELDOLA and FORSTER), 1891, T., 697.
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- Phenylmethyl- β -naphthylamine**, thio- (KYM), 1890, A., 1307.
- Phenylmethylnitramine**, 2:3:4:6-*tetra*-nitro-, and its conversion into *m*-phenylenediamine derivatives (VAN ROMBURGH), 1889, A., 1154.
- Phenylmethylnitrosamine**, constitution of (ERLENMEYER), 1883, A., 1103.
p-nitro- (FISCHER and HEPP), 1887, A., 244; (MELDOLA and SALMON), 1888, T., 775.
p-nitroso- (FISCHER and HEPP), 1887, A., 244.
 See also Methylaniline, nitroso-.
- n*-Phenylmethylosotriazole** and its derivatives (JONAS and V. PECHMANN), 1891, A., 1111.
- n*-Phenylmethylosotriazolecarboxylic acid** (BALTZER and V. PECHMANN), 1891, A., 1115.
- n*-Phenylmethylosotriazolesulphonic acid** (JONAS and V. PECHMANN), 1891, A., 1112.
- Phenylmethylosotriazone** (v. PECHMANN), 1888, A., 1289.
- Phenylmethyloxazole** (LEWY), 1888, A., 593, 1101.
- Phenylmethyl-*iso*-oxazole** (HANTZSCH), 1891, A., 741.
- Phenylmethyloxanthranol** (v. HEMILIAN), 1884, A., 322.
- $\mu\beta$ -Phenylmethyloxazoline** (GABRIEL and HEYMANN), 1890, A., 1267.
m-nitro- (ELFELDT), 1892, A., 214.
- Phenylmethylparaconic acids**, α - and β - (FITTIG and LIEBMANN), 1890, A., 775.
- Phenyl- α -methylpiperidine**, *o,p*-*d*-nitro- (LELLMANN and JUST), 1891, A., 1245.
- Phenyl- β -methylpiperidine**, *p*-nitro-, and *o,p*-*d*-nitro- (LELLMANN and BÜTTNER), 1890, A., 1003.
- Phenylmethylpropionic acid**. See Methylhydrocinnamic acid and Tolypropionic acid.
- Phenylmethylpropylalkine**. See Hydroxypropylmethylaniline.
- 1-Phenyl-3-methyl-4-isopropylenepyrazolone** (KNORR), 1887, A., 602.
- Phenylmethylpropylene- ψ -thiocarbamide** (PRAGER), 1890, A., 159.
- 1-Phenyl-3-methylpyrazole** (CLAISEN and STYLOS), 1888, A., 671; (ACH), 1890, A., 71; (CLAISEN and ROOSEN), 1891, A., 1106.
- 1-Phenyl-5-methylpyrazole** (KNORR and LAUBMANN), 1889, A., 410; (CLAISEN and ROOSEN), 1891, A., 1106.
- 1-Phenyl-3-methylpyrazole-5-carboxylic acid** (ACH), 1890, A., 71.
- 1-Phenyl-5-methylpyrazole-3-carboxylic acid** (CLAISEN and STYLOS), 1888, A., 676; (CLAISEN and ROOSEN), 1891, A., 1107.

- 1-Phenyl-5-methylpyrazole-3:4-dicarboxylic acid (KNORR and LAUEMANN), 1888, A., 410.
- 1-Phenyl-3-methylpyrazolidone (KNORR and DUDEN), 1892, A., 731.
- 1-Phenyl-3-methylpyrazolone and its derivatives (KNORR), 1884, A., 1103; 1887, A., 601; (MÖLLENHOFF), 1892, A., 1245.
- action of sulphur dichloride on (SPRAGUE), 1891, T., 334.
- 4-mono- and di-bromo- (KNORR and DUDEN), 1892, A., 731.
- 4-dibromo-*p*-bromo- (KNORR and DUDEN), 1892, A., 731; (MÖLLENHOFF), 1892, A., 1246.
- 4-nitro- (KNORR), 1884, A., 302, 1153, 1378; 1887, A., 602; (KNORR and DUDEN), 1892, A., 731.
- 4-oxime (KNORR), 1887, A., 602.
- 4-thio- (4-thiobis-1-phenyl-3-methylpyrazolone) (v. BUCHKA and SPRAGUE), 1890, A., 796; (MICHAELIS), 1890, A., 1269; (SPRAGUE), 1891, T., 332, 335.
- Phenylmethylisopyrazolones, 1:2- and 1:5- (LEDERER), 1892, A., 635.
- 1-Phenyl-3-methylpyrazolone-4-acetic acid (KNORR and BLANK), 1884, A., 1380.
- Phenylmethylpyrazoloneazobenzene. See under Azo.
- 1-Phenyl-3-methylpyrazolone-4-carbinol and -4-malonylcarbamide (PELLIZZARI), 1889, A., 518.
- 1-Phenyl-3-methylpyrazolone-4-ketophenylhydrazone (v. BUCHKA and SPRAGUE), 1890, A., 28.
- 1-Phenyl-3-methylpyrazolone-*p*-sulphonic acid (MÖLLENHOFF), 1892, A., 1245.
- 1-Phenyl-3-methylpyrazolone-*p*-sulphonic chloride, 4-dichloro- (MÖLLENHOFF), 1892, A., 1246.
- Phenyl- α -methylpyridazone, and γ -chloro- (ACH), 1890, A., 71.
- 4-Phenyl-2-methylpyrroldiazolone (ANDREOCCI), 1890, A., 889.
- 1-Phenyl-2-methylpyrrolidone-2-carbonitrile and -carboxylic acid (KÜHLING), 1889, A., 1211, 1212.
- Phenylmethylpyrroline, synthesis of (PAAL), 1885, A., 516.
- 5-Phenyl-2-methylpyrroline-3-carboxylic acid (LEDERER and PAAL), 1886, A., 75.
- γ -Phenyl- β -methyl- and β -phenyl- γ -methyl- ψ -quinazolones (KÖRNER), 1887, A., 1045.
- 2'-Phenyl-1-methylquinoline (DOEBNER and GIESEKE), 1888, A., 300.
- 2'-Phenyl-2-methylquinoline, *p*-amido- (WEIDEL and BAMBERGER), 1888, A., 966.
- 2'-Phenyl-3'-methylquinoline, 4-amido-. See Flavaniine.
- m*-amido- and *m*-nitro- (v. MILLER and KINKELIN), 1886, A., 561.
- Phenyl-2'-methylquinoline, amido- (SCHIFF and VANNI), 1890, A., 1298.
- 4'-Phenyl-2'-methylquinoline (*phenylquinaldine*) and its derivatives (GEIGY and KOENIGS), 1885, A., 1236.
- synthesis of (BEYER), 1886, A., 630.
- 2'-Phenylmethylquinoxaline, constitution of (LELLMANN and DONNER), 1890, A., 525.
- μ -Phenyl- α -methyl-selenazole and -selenazole- β -carboxylic acid (HOFMANN), 1889, A., 727.
- Phenylmethylsemithiocarbazides (DIXON), 1890, T., 261; P., 26; (v. BRÜNING), 1890, A., 23.
- Phenylmethylsuccinic acids (ZELINSKY and BUCHSTAB), 1891, A., 1065.
- Phenylmethylsulphonamic acid, ammonium salt of (TRAUBE), 1891, A., 569.
- Phenylmethylsulphone (OTTO), 1885, A., 536.
- mono*- and *di*-chloro- (OTTO), 1888, A., 483; 1890, A., 380.
- iodo- (MICHAEL and PALMER), 1885, A., 536.
- Phenylmethyltaurine (*anilidoisethioniacid*) and its salts (ANDREASCH), 1883, A., 665.
- preparation of (JAMES), 1885, T., 372; P., 47.
- Phenyl- β -methyltaurocarbamioanhydride (PRAGER), 1890, A., 159.
- Phenylmethyltetrahydrofurfuran (*phenylmethyl-tromethylene oxide*) (PAAL), 1885, A., 250.
- properties of (COLEFAX), 1891, T., 194.
- Phenylmethyltetrahydroketoxoquinoline (GEORGESCU), 1892, A., 886.
- 1-Phenyl-2-methyltetrahydropyridine (LIPP), 1892, A., 1244.
- 3-Phenyl-1-methyltetrahydroquinoline, derivatives of (LA COSTE and SORGER), 1886, A., 81.
- 3'-Phenyl-2'-methyltetrahydroquinazoline (PAAL and KEECKE), 1892, A., 81.
- α -Phenyl- μ -methylthiazole (HANTZSCH), 1888, A., 574; 1889, A., 724.
- μ -Phenyl- α -methylthiazole (HUBACHER), 1891, A., 221.
- μ -Phenylmethylthiazoline and its derivatives (GABRIEL and HEYMANN), 1891, A., 701.

- Phenylmethylthiocarbamides** (GEBHARDT), 1884, A., 1321; 1885, A., 383.
- Phenylmethylthiocarbamine chloride and oxide** (BILLETER), 1887, A., 823.
- Phenylmethylthiohydantoin** (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- 4:2-Phenylmethylthiophen** and its derivatives (PAAL and PÜSCHEL), 1887, A., 1101.
- 5:2-Phenylmethylthiophen**, synthesis of (PAAL), 1885, A., 516.
- Phenylmethyl-*p*-toluamide** (LELLMANN and BENZ), 1891, A., 1215.
- Phenylmethyltriazenylamidoxime derivatives** (BLADIN), 1889, A., 977.
- Phenylmethyltriazenylazoxime-benzoyl and -ethenyl** (BLADIN), 1889, A., 978.
- Phenylmethyltriazole** (BLADIN), 1887, A., 139.
- Phenylmethyltriazolecarboxylic acid and its derivatives** (BLADIN), 1887, A., 138; 1890, A., 1165; 1891, A., 472.
- p*-Phenylmethyluramidobenzoic acid (*p*-phenylmethylglycoluric acid)** (GUARESCHI), 1892, A., 828.
- Phenylmethylurethane** (GEBHARDT), 1885, A., 384.
- Phenylmethylxylylamide** (LELLMANN and BENZ), 1891, A., 1215.
- Phenylmethyl-**. See also Methylphenyl-.
- 1-Phenylmorpholine** (KNORR), 1889, A., 1219.
- α -Phenyl- α - and - β -naphthacinchonic acids** (DOEBNER and KUNTZE), 1889, A., 411.
- β -Phenyl-naphthalene** (SMITH), 1889, P., 70.
- Phenyl- β -naphthacridine** (RIS), 1884, A., 1357; (CLAUS and RICHTER), 1884, A., 1358.
- Phenyl-naphthaphenanthrazonium hydroxide and its salts** (WITT), 1887, A., 730.
- 2'-Phenyl- α - and - β -naphthaquinolines** (DOEBNER and KUNTZE), 1889, A., 411, 412.
- Phenyl-naphthaquinone** from the hydrocarbon $C_{16}H_{12}$ (ZINCKE and BREUER), 1885, A., 269.
- Phenyl- β -naphthindoles**, 2'- and 3'- (INCE), 1890, A., 57.
- Phenyl- β -naphthol**, diamido-, and 2:4-dinitro- (ERNST), 1891, A., 300.
- Phenyl-naphthostilborosindene** (WITT and SCHMIDT), 1892, A., 1247.
- Phenyl-naphthyl- acetic acid and -acetonitrile** (MICHAEL and JEANPRÉTRE), 1892, A., 1094.
- Phenyl- α -naphthylamine** (FRIEDLÄNDER), 1884, A., 80.
- 2:4-dinitro-** (HEIM), 1888, A., 488, 1096.
- (?) 4:2-nitramido-** (HEIM), 1888, A., 1096.
- thio-** (KYM), 1890, A., 1307.
- Phenyl- β -naphthylamine** (FRIEDLÄNDER), 1884, A., 80.
- action of oxalic acid on** (MELDOLA), 1883, A., 807.
- amido-**. See Phenyl-naphthylenediamine.
- diamido-** (ERNST), 1891, A., 301.
- azo-derivatives of** (ZINCKE and LAWSON), 1887, A., 730; (ZINCKE), 1890, A., 990.
- 2:4-dinitro-** (HEIM), 1888, A., 488; (ERNST), 1891, A., 300.
- nitramido-** (HEIM), 1888, A., 488.
- thio-** (KYM), 1890, A., 1307.
- Phenyl-naphthylamine-blue** (HAUSDÖRFER), 1890, A., 1308.
- Phenyl- α -naphthylbiazolon** (FREUND), 1892, A., 509.
- Phenyl- β -naphthylcarbamide** [m.p. 220°] (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- as*-Phenyl- β -naphthylcarbamide** [m.p. 189°] and chloride (KYM), 1890, A., 633.
- Phenyl- α -naphthylcarbazole** (KYM), 1890, A., 1307.
- Phenyl-naphthylcarbazole**, boiling point of (SCHWEITZER), 1891, A., 1240.
- α -Phenyl-naphthylcarbinol** (BECKMANN), 1889, A., 781.
- Phenyl-*o*-naphthylenediamine** (ZINCKE and LAWSON), 1887, A., 730; (HARDEN), 1890, A., 631.
- action of benzaldehyde and of salicylaldehyde on** (FISCHER), 1892, A., 1472.
- action of nitrous acid on** (ZINCKE and CAMPBELL), 1890, A., 788.
- condensation of, with benzoin** (FISCHER), 1891, A., 748.
- Phenyl-naphthylene-ethyldiamine** action of benzaldehyde on (FISCHER), 1892, A., 1472.
- Phenyl-naphthylethylazammonium iodide** (ZINCKE and CAMPBELL), 1890, A., 787.
- Phenyl- α -naphthylethylthiocarbamide** (MAINZER), 1883, A., 1106.
- Phenyl- α -naphthylformamidine** (COMSTOCK and WHEELER), 1892, A., 706.
- Phenyl- α -naphthylglycollic acid** (BECKMANN), 1889, A., 781; (BECKMANN and PAUL), 1892, A., 170.

- Phenyl- α - and - β -naphthylhydrazines, *o,p*-*d*-nitro- (WILLGERODT and SCHULZ), 1891, A., 572.
- 5-Phenyl- α - and - β -1-naphthyl-2-methylpyrroline-3-carboxylic acids (LEDERER and PAAL), 1886, A., 76.
- Phenyl- β -naphthylmethylthiocarbamide (GEBHARDT), 1884, A., 1321.
- alt*-Phenyl- α - β -naphthyl-naphthatriazine (MELDOLA and FORSTER), 1891, T., 698.
- Phenyl-naphthylpinacolone (ELBS), 1887, A., 943.
- Phenyl- α - and - β -naphthylsemithiocarbazides (DIXON), 1892, T., 1019; (FREUND), 1892, A., 508.
- Phenyl- α -naphthyl- ψ -thiobiazolone (FREUND), 1892, A., 510.
- Phenyl-naphthylthiocarbamides (MAINZER), 1883, A., 1107; (FREUND and WOLF), 1892, A., 984.
- Phenyl-nitroethylene. See Styrene, nitro-.
- Phenyl-nitrobenzenesulphazide, *m*- and *p*-nitro- (LIMPRICHT), 1887, A., 723.
- Phenyl-*m*-nitrobenzenylamidine (LOSSEN), 1892, A., 52.
- Phenyl-*o*-, -*m*- and -*p*-nitrobenzenyl-naphthylenediamines (FISCHER), 1892, A., 1473.
- Phenyl-*m*-nitrobenzimid-ether (LOSSEN), 1892, A., 52.
- Phenyl-*m*-nitrobenzylamine (BOGGMANN), 1886, A., 57.
- Phenyl-*di-o*-nitro-dibenzylhydrazine (PAAL and BODEWIG), 1892, A., 1456.
- Phenyl-nitromethane. See Toluene, nitro-.
- Phenyl-tetranitronaphthylamine (MERZ and WEITH), 1883, A., 344.
- Phenyl-*p*- and -*o*-nitrophenyl oxides, *di*- and *tri*-nitro- (*tri*- and *tetra*-nitro-diphenyl oxides) (WILLGERODT and HUETLIN), 1884, A., 1328.
- Phenyl-*o,p*-*d*-nitrophenylcarbin cyanide, *p*-nitro- (*tri*-nitro-diphenylacetonitrile) (v. RICHTER), 1888, A., 1186.
- Phenyl-*m*-nitrophenylmethylcarbamide (*m*-nitro-*s*-diphenylmethylcarbamide) (LELLMANN and BENZ), 1891, A., 1215.
- α -Phenyl-*alt-m*- and -*p*-nitrophenyl-naphthatriazines and *p*- and *m*-nitro- (MELDOLA and FORSTER), 1891, T., 693.
- Phenyl-nitropropionic acid, *p*-nitro-, derivatives of (FRIEDLANDER and MÄHLY), 1885, A., 1137.
- Phenyl-*di*-nitropropionic acid (GABRIEL), 1885, A., 1229.
- Phenyl-nitropropylene and its derivatives (PRIEBES), 1884, A., 313; 1885, A., 161.
- Phenyl-nitrosoimidothiazoline (SCHATZMANN), 1891, A., 745; (NÄF), 1891, A., 1517.
- Phenyl-nitrososulphone (RÖSSING), 1890, A., 781.
- Phenyl-*di*-nitrotoluidine (γ -*di*-nitrotolyl-phenylamine) (HEPP), 1883, A., 317.
- Phenyl-*m*-nitro-*p*-tolylearbamide (LEUCKART), 1890, A., 760.
- Phenyl-*o*-nitro-*p*-tolylthiocarbamide, *m*-nitro- (STEUEDEMAN), 1884, A., 307.
- Phenyl-nonyl-carbamide and -thiocarbamide (FREUND and SCHÖNFELD), 1892, A., 132, 133.
- Phenyl-octane. See Octylbenzene.
- Phenyl-octonitrile (*heptylbenzylidene cyanide*) (ROSSOLYMO), 1889, A., 862.
- Phenyl-*azoneglyoxal*carboxylic acid (NASTVOGEL), 1889, A., 237.
- n*-Phenyl-*osotriazaldehyde* (JONAS and v. PECHMANN), 1891, A., 1113.
- n*-Phenyl-*osotriazole* and its homologues (JONAS and v. PECHMANN), 1891, A., 1113.
- cyano- (JONAS and v. PECHMANN), 1891, A., 1114.
- n*-Phenyl-*osotriazole*carboxylic acid and its derivatives (JONAS and v. PECHMANN), 1891, A., 1112.
- amido-, and nitro- (BALTZER and v. PECHMANN), 1891, A., 1116.
- n*-Phenyl-*osotriazole*dicarboxylic acid (BALTZER and v. PECHMANN), 1891, A., 1116.
- n*-Phenyl-*osotriazole*ethiamide (JONAS and v. PECHMANN), 1891, A., 1114.
- Phenyl-*osotriazone*carboxylic acid (v. PECHMANN), 1888, A., 1289.
- n*-Phenyl-*osotriazylamine* and *n*-phenyl-*osotriazyl alcohol* (JONAS and v. PECHMANN), 1891, A., 1114.
- Phenyl-*oxamic acid*. See Oxanilic acid.
- μ -Phenyl-*oxazoline* (GABRIEL and HEYMANN), 1890, A., 1267.
- preparation of (GABRIEL and HEYMANN), 1892, A., 1332.
- m*-nitro- (ELFELDT), 1892, A., 213.
- Phenyl-*soxazole* (CLAISEN and STOCK), 1891, A., 451.
- Phenyl-*soxazolone* (PERKIN and STENHOUSE), 1891, T., 1005; (CLAISEN and ZEDEL), 1891, A., 468; (HANTZSCH), 1891, A., 710; (NESSBERGER), 1892, A., 1177.

- Phenylisooxazolone**, oxime of (CLAISEN and ZEDEL), 1891, A., 468.
- Phenylloximidoacetic acids**, α - and β - (MULLER), 1883, A., 1129; 1884, A., 584; (HANTZSCH), 1890, A., 1274; 1891, A., 444.
- Phenylloximidoacetonitrile** (RUSSANOFF), 1892, A., 322.
- α -Phenylloxyacrylic acid**. See Coumaric acid.
- β -Phenylloxyacrylic acid**. See Phenylglycidic acid.
- Phenylparabanic acid** (v. STOJENTIN), 1885, A., 1196.
- Phenylparaconic acid** and its salts (JAYNE), 1883, A., 472; (FITTIG and RÖDERS), 1890, A., 621. constitution of (ERDMANN), 1884, A., 906. nitration of (ERDMANN), 1886, A., 67. bromo- and isobromo- (FITTIG and LEONI), 1890, A., 895.
- chloro- (*o*-, *m*- and *p*-), disubstituted naphthalenes from (ERDMANN and KIRCHHOFF), 1889, A., 150.
- 2:4-, 2:5- and 3:4-dichloro-, and their derivatives (ERDMANN), 1889, A., 265; (SCHWECHTEN), 1890, A., 619; (ERDMANN and SCHWECHTEN), 1891, A., 450.
- nitro- (SALOMONSON), 1885, A., 1224; 1888, A., 480.
- Phenylparamide** (*muellitic acid, phenyl-imide of*) (HÜTTE), 1885, A., 1220.
- Phenylpentane**. See Amylbenzene.
- ω -Phenylpentamethylene glycol** and bromide (KIPPING and PERKIN), 1890, T., 311, 313.
- Phenylpentamethylpyrazolone** (1- ψ -cumyl-2:3-dimethylpyrazolone) (HALLER), 1885, A., 818.
- Phenylpentenoic acid**. See Hydrostyrylacrylic acid and Phenylmethylisocrotonic acid.
- μ -Phenylpentoxazoline** (GABRIEL and ELFELDT), 1892, A., 212. *m*-nitro- (ELFELDT), 1892, A., 214.
- Phenylpentylene**. See Phenylamylene.
- Phenylisopentylene**. See isoAmylbenzene.
- Phenylphenacyl oxide**, *m*-nitro- (LELLMANN and DONNER), 1890, A., 523.
- 2'-Phenylphen-*p*-azoxine** (LELLMANN and DONNER), 1890, A., 524.
- Phenylphenotriazole**, *meso*- (KEHRMANN and MESSINGER), 1892, A., 889.
- Phenyl-*o*-phenylenediamine** (*amido-diphenylamine*) (SCHÜPF), 1890, A., 1113.
- Phenyl-*p*-phenylenediamine** (IKUTA), 1888, A., 167; (HENCKE), 1890, A., 609.
- Phenyl-*o*-phenyleneguanidine** (KELLER), 1891, A., 1469.
- "Phenyl-*p*-phenylglycoluric acid"** (GUARESCHI), 1892, A., 828.
- Phenylphenylhydrazine**, 3-bromo-6-nitro- (WILLGERODT), 1888, A., 949. *allo-m*-chloro-*o*-nitro-, preparation of (WILLGERODT and ELLON), 1891, A., 1361.
- Phenyl-*ald*-phenylnaphthatriazine**. See Diphenyl- $\alpha\beta$ -naphthatriazine.
- Phenylphenylsemithiocarbazides**, *o*- and *p*-chloro- (HEWITT), 1891, T., 210, 212.
- Phenylphosphoric acid**. See Phenylic phosphate.
- Phenylphosphorous acid** (NOACK), 1883, A., 736.
- Phenylphosphoryl chloride** (NOACK), 1883, A., 735.
- Phenylphosphoryl di-, tetra- and thiochlorides** (ANSCHÜTZ and EMERY), 1890, A., 34, 35.
- 5-Phenylisophthalic acid** (DOEBNER), 1890, A., 1284; 1891, A., 1065.
- o*-Phenylphthalidecarboxylic acid**, isomeride of (JUILLARD), 1888, A., 955.
- Phenylphthalimide**, preparation of (HALLER), 1892, A., 1204.
- Phenylpiperazine**, *p*-nitro- (SCHMIDT and WICHMANN), 1892, A., 210.
- 1-Phenyl-3:6-*o*-piperazone** (MICHAELIS and HERMENS), 1892, A., 1494.
- 1-Phenylpiperidine** and its derivatives (LELLMANN), 1887, A., 604; (LELLMANN and GELLER), 1888, A., 1107. *o*-amido- (LELLMANN and JUST), 1891, A., 1245. *p*-amido-, formation of dyes from (LELLMANN and GELLER), 1888, A., 1108. *p*-bromo- (LELLMANN and JUST), 1891, A., 1244. nitro-derivatives of (LELLMANN), 1887, A., 604.
- γ -Phenylpiperidine** (BALLY), 1888, A., 65.
- Phenylpiperidylcarbamide** (GERHARDT), 1885, A., 384; (WALLACH and LEHMANN), 1887, A., 385.
- Phenylpiperidylactic acid** (ERLENMEYER), 1889, A., 988.
- Phenylpiperidylthiocarbamide** (SKINNER and RUHEMANN), 1888, T., 558.
- α -Phenylpropaldehyde** (v. MILLER and ROHDE), 1891, A., 898.
- β -Phenylpropaldehyde** (*hydrocinnamaldehyde*) (v. MILLER and ROHDE), 1890, A., 979.
- Phenylpropargyl oxide** (HENRY), 1883, A., 803.

- Phenylpropenylamidine** (MICHAEL and WING), 1885, A., 963.
- Phenylpropionic acid** (PERKIN and BELLENOT), 1886, T., 441.
 preparation of (PERKIN), 1884, T., 171.
 direct addition of hydrogen to (ARONSTEIN and HOLLEMAN), 1889, A., 878.
 formation of *allocinnamic acid* from (LIEBERMANN and SCHOLZ), 1892, A., 848.
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o-amido-, and its derivatives (v. BAEYER and BLOEM), 1883, A., 196.
- α*-Phenylpropionamide** (JANSSEN), 1889, A., 596.
- β*-Phenylpropionamide** (v. HOFMANN), 1886, A., 45; (HUGHES), 1891, P., 71.
- Phenylpropionic acid**, formation of a hydrocarbon, $C_{18}H_{12}$, from (KIP-PING), 1892, P., 107.
- α*-Phenylpropionic acid** (*hydratropic acid*) (OLIVERI), 1890, A., 375.
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 derivatives of (TRINIUS), 1885, A., 529.
- β*-Phenylpropionic acid** (*hydrocinnamic acid*) and its derivatives (GABRIEL), 1883, A., 195; (GABRIEL and HERZBERG), 1883, A., 1123; (HERZBERG), 1885, A., 661.
 thermochemistry of (STOHMANN, KLEBER and LANGEIN), 1889, A., 1096.
 melting point and separation of mixtures of phenylacetic acid and (SALKOWSKI), 1885, A., 602.
- 3:4-diamido-** (GABRIEL), 1883, A., 195.
- m*-bromo-** (GABRIEL), 1883, A., 195.
- 3:4-bromamido-** (GABRIEL), 1883, A., 195.
- o*-, *m*- and *p*-chloro-** (HERZBERG), 1885, A., 661.
- p*-chloro-** (MIERSCH), 1892, A., 1222.
- αβ*-dichloro-** (ERLENMEYER), 1883, A., 196.
- chlorobromo-** (ERLENMEYER), 1883, A., 196.
- o*-, *m*- and *p*-iodo-** (HERZBERG), 1885, A., 661.
- 3:5-dinitro-4-amido-** (STOEHR), 1884, A., 1350.
- α*-Phenylpropionic anhydride**, *o*-amido-. See Atroxindole.
- β*-Phenylpropionic anhydride**, *o*-amido-. See Hydrocarbostyrl.
- β*-Phenylpropionic** (*cinnamic*) **chloride** (HUGHES), 1891, P., 71.
- α*-Phenylpropionitrile** (MEYER), 1889, A., 596.
- Phenylpropionylcarbamide** (KÜHN), 1885, A., 260.
- Phenylpropylacetamide**, *β*- and *γ*-bromo- (ELFELDT), 1892, A., 214.
- Phenylpropylacetic acid** (ROSSOLYMO), 1889, A., 861.
- Phenylisopropylacetylglycollic acid**. See Acetylcumylglycollic acid.
- Phenylpropylamine** and its derivatives (TAFEL), 1886, A., 940; 1889, A., 976; (GARELLI), 1892, A., 845.
di- and *tri*-nitro- (VAN ROMBURGH), 1886, A., 455.
- Phenylisopropylamine** (EDELEANU), 1887, A., 583.
- Phenylisopropylbenzenyl-naphthylene-diamine** (FISCHER), 1892, A., 1473.
- Phenylpropylcarbinol** (MARSHALL and PERKIN), 1891, T., 886.
- Phenylpropylene**. See Allylbenzene.
- 1-Phenyl-4-isopropylene-3:5-pyrazolid-one** (MICHAELIS and BURMEISTER), 1892, A., 1005.
- Phenylpropylene-*ψ*-semithiocarbazide** (AVENARIUS), 1891, A., 550.
- Phenylpropylene-*ψ*-thiocarbamide** (PRAGER), 1890, A., 159.
- Phenylisopropylethylene glycol** (FOSSEK), 1884, A., 833.
- Phenylisopropylhydrazine** (PHILIPS), 1887, A., 1104.
- Phenylpropylic alcohol** (ERRERA), 1887, A., 35.
- Phenylisopropylic alcohol** (*benzylmethylcarbinol*) (ERRERA), 1887, A., 35.
- Phenylisopropylketone-*o*-carboxylic acid** (*benzoylisopropyl-*o*-carboxylic acid*) (ROSER), 1885, A., 268.
- Phenylpropylnitramine**, *trinitro*- (VAN ROMBURGH), 1886, A., 455.
- Phenylpropylthiocarbamine chloride** (BILLETER and STROHL), 1888, A., 364.
- Phenyl-propyl- and -isopropyl-triazole-carboxylic acids** (BLADIN), 1892, A., 638.
- Phenylpropyl-**. See also Propylphenyl-.
- Phenylmetapyrazole** (PINNER and LIFSCHÜTZ), 1887, A., 1055.
- 1-Phenylpyrazole** (BALBIANO), 1887, A., 1054; 1889, A., 1215; (KNORR and LAUBMANN), 1889, A., 410.
 derivatives of (BALBIANO), 1890, A., 1164.
 4-bromo- and *di*- and *tri*-bromo- (BALBIANO), 1890, A., 797.
- 2-Phenyl-*β*-pyrazole**. See 2-Phenylglyoxaline.

- 1-Phenylpyrazole-4-carboxylic acid (KNORR and LAUBMANN), 1889, A., 410.
- 1-Phenylpyrazole-5-carboxylic acid (CLAISEN and ROOSEN), 1891, A., 1107.
- 1-Phenylpyrazole-3:5-dicarboxylic acid (BALBIANO), 1890, A., 1164; (CLAISEN and ROOSEN), 1891, A., 1107.
- 4-bromo- (BALBIANO), 1890, A., 1165.
- 1-Phenylpyrazole-3:4:5-tricarboxylic acid (KNORR and LAUBMANN), 1889, A., 410.
- 1-Phenylpyrazolidine (MICHAELIS and LAMPE), 1892, A., 355.
- 1-Phenyl-3:5-pyrazolidone (MICHAELIS and BURMEISTER), 1892, A., 1004.
- 4-oxime of (MICHAELIS and BURMEISTER), 1892, A., 1005.
- 1-Phenyl-3:5-pyrazolidone-4-azobenzene (MICHAELIS and BURMEISTER), 1892, A., 1005.
- 1-Phenylpyrazoline (FISCHER and KNOEVENAGEL), 1887, A., 932; (BALBIANO), 1889, A., 1215.
- Phenylmetapyrazolone (*α -phenylhydantoin*) (PINNER), 1888, A., 1102.
- Phenylpyrazolone (*quinizine*) derivatives, constitution of (KNORR), 1884, A., 1377; 1887, A., 601.
- 1-Phenylpyrazolone (RUHEMANN and MORRELL), 1892, T., 799.
- 1-Phenylisopyrazolone and 4-bromo- (FISCHER and KNOEVENAGEL), 1887, A., 933.
- 1-Phenylpyrazolone-3-carboxylic acid (BUCHNER), 1890, A., 156.
- 1-Phenylpyrazolone-4-carboxylic acid (RUHEMANN and MORRELL), 1892, T., 797, 799.
- 1-Phenylpyrazolone-3-carboxylic acid, 4-amido- (TAFEL), 1887, A., 468.
- 2-Phenylpyridine (SKRAUP and COBENZL), 1883, A., 1015.
- 3-Phenylpyridine, and its diketone (SKRAUP and COBENZL), 1883, A., 1013.
- 4-Phenylpyridine, and its salts (HANTZSCH), 1884, A., 1194.
- 2-Phenylpyridine ketone, and its salts (SKRAUP and COBENZL), 1883, A., 1015.
- 3-Phenylpyridinecarboxylic acid and its salts (SKRAUP and COBENZL), 1883, A., 1012.
- Phenylpyridinedicarboxylic acids, 2- and 3-, and their salts (SKRAUP and COBENZL), 1883, A., 1014, 1011.
- 2-Phenylpyridinedicarboxylic acid, dibromo-, and its salts (SKRAUP and COBENZL), 1883, A., 1014.
- 2-Phenylpyridinephenyleneketonecarboxylic acid (DOEBNER and KUNTZE), 1889, A., 412.
- 3-Phenylpyridinesulphodicarboxylic acid (IMMERHEISER), 1889, A., 527.
- 4-Phenylpyridinetetracarboxylic acid, and its salts (HANTZSCH), 1884, A., 1193.
- 1-Phenyl-4-pyridone, *$\alpha\beta$ -trichloro-* (ZINCKE), 1890, A., 965; (ZINCKE and FUCHS), 1892, A., 448.
- 1-Phenyl-4-pyridonecarboxylic acid, *$\alpha\beta$ -trichloro-* (ZINCKE), 1890, A., 965; (ZINCKE and FUCHS), 1892, A., 448.
- Phenylpyrrodiazolecarboxylic acid, 1:3-, synthesis of (ANDREOCCHI), 1892, A., 636.
- 1-Phenylpyrrolineazobenzene (FISCHER and HEPP), 1886, A., 1042.
- 1-Phenylpyrroline-2:5-dibenzoic acid (BAUMANN), 1887, A., 735.
- Phenylpyruvic acid (PLÖCHL), 1884, A., 604; 1887, A., 254; (ERLENMEYER), 1887, A., 142, 1046; (WISLICHENUS), 1887, A., 587.
- synthesis of (ERLENMEYER), 1889, A., 990.
- Phenylquinaldine. See Phenyl-2'-methylquinoline.
- Phenylquinaldinic acid. See 4'-Phenylquinoline-2'-carboxylic acid.
- 2'-Phenylquinazoline (GABRIEL and JANSEN), 1890, A., 1442.
- α -Phenylquininic acid* (DOEBNER), 1889, A., 411.
- Phenylquinoline, amido- [m.p. 136°5'] (JELLINEK), 1886, A., 1045.
- 1-Phenylquinoline and its derivatives (LA COSTE and SORGER), 1886, A., 80.
- 3-Phenylquinoline and its derivatives (LA COSTE and SORGER), 1886, A., 81.
- amido- (WEIDEL and v. GEORGIEVICS), 1888, A., 967.
- 2'-Phenylquinoline, preparation of (FRIEDLÄNDER and GÖHRING), 1883, A., 1148; (DOEBNER and v. MILLER), 1883, A., 1149.
- derivatives of (DOEBNER and v. MILLER), 1886, A., 721; (MURMANN), 1892, A., 1003.
- 2-amido- (v. MILLER and KINKELIN), 1885, A., 1144.
- 3'-Phenylquinoline, preparation of (FRIEDLÄNDER and GÖHRING), 1883, A., 1148.
- 4'-Phenylquinoline and its derivatives (GRIMAU), 1883, A., 668; (KOENIGS and NEF), 1886, A., 1045; 1887, A., 599.

- 3'-Phenylisoquinoline and 4'-amido-, and 1':4'-chloronitro- (GABRIEL), 1886, A., 265, 630.
- Phenylquinolineamine, and its salts (FRIEDLÄNDER and WEINBERG), 1885, A., 990.
- 2'-Phenylquinoline-4'-carboxylic acid (*α*-phenyleinchonic acid) (DOERNER), 1887, A., 504.
- homologues of (DOEBNER and GIESEKE), 1888, A., 300.
- 4'-Phenylquinoline-2'-carboxylic acid (*phenylquinoldinic acid*) (KOENIGS and NEF), 1886, A., 1045.
- 3-Phenylquinoline-*mono*- and -*di*-carboxylic acids (CLAUS and NICOLAYSEN), 1886, A., 68.
- 2'-Phenylquinolinesulphonic acids (MURMANN), 1892, A., 1003.
- 3-Phenylquinoline-*p*- and -*β*-sulphonic acids and their salts (LA COSTE and SORGER), 1886, A., 82.
- Phenylquinonediiimide (HENCKE), 1890, A., 609.
- Phenylrosaniline, *dinitro*- (NÖLTING), 1883, A., 54.
- Phenylrosinduline (*rosinduline*) (FISCHER and HEPP), 1888, A., 1291; 1890, A., 909.
- amido- (FISCHER and HEPP), 1890, A., 765.
- Phenylrosindulinesulphonic acid (FISCHER and HEPP), 1891, A., 1045.
- Phenylsalicenylyramidoxime (SPILKER), 1890, A., 144.
- Phenylsalicylic acid (GRAEBE), 1888, A., 477; (ARBENZ), 1890, A., 892.
- tribromo*-, and *dinitro*- (ARBENZ), 1890, A., 893.
- Phenylsantoninmethane, *m*-nitro- (BERTONI), 1892, A., 622.
- α*-Phenylselenazylamine (HOFFMANN), 1889, A., 726.
- Phenylseleniocarbamide (STOLTE), 1886, A., 781.
- Phenylseleniocarbimide (STOLTE), 1887, A., 43.
- Phenylsemicarbazide (EDELEANU), 1892, A., 1323.
- o*-chloro- (HEWITT), 1891, T., 210.
- Phenylsemithiocarbazide (SKINNER and RUHEMANN), 1888, A., 274.
- Phenylsorbinosazone (FISCHER), 1887, A., 567.
- Phenylsuccenylamidine (COMSTOCK and WHEELER), 1892, A., 702.
- Phenylsuccinamic acid, *p*-bromo- (HOOGWERFF and VAN DORP), 1891, A., 196.
- Phenylsuccinamide, constitution of (HOOGWERFF and VAN DORP), 1891, A., 197.
- action of potassium hypobromite on (HOOGWERFF and VAN DORP), 1891, A., 196.
- p*-bromo-, and bromamido- (HOOGWERFF and VAN DORP), 1891, A., 196.
- Phenylsuccinazone (CIAMICIAN and ZANETTI), 1890, A., 1120.
- Phenylsuccinimide (MOINE), 1887, A., 489.
- preparation of (HALLER), 1892, A., 1204.
- Phenylsulpharsenic acid, disodium salt of (SCHULTE), 1883, A., 187.
- Phenylsulphineacetic acid, non-existence of (OTTO and ENGELHARDT), 1887, A., 263.
- "Phenylsulphocyanine," *α*-amido- (VILLE), 1887, A., 833.
- Phenylsulphonamic acid (TRAUBE), 1890, A., 1137.
- di*bromo-, barium salt of (TRAUBE), 1891, A., 569.
- Phenylsulphone. See Diphenylsulphone.
- Phenylsulphoneacetates, properties of (MICHAEL and PALMER), 1885, A., 986.
- Phenylsulphoneacetoneamine (R. and W. OTTO), 1888, A., 282.
- Phenylsulphoneacetone (OTTO), 1886, A., 801; (OTTO and RÖSSING), 1890, A., 780.
- Phenylsulphoneacetonephenylmercaptole (R. and W. OTTO), 1888, A., 282; (OTTO and RÖSSING), 1891, A., 568.
- Phenylsulphoneacetoxime (R. and W. OTTO), 1888, A., 282.
- Phenylsulphone-*o*-amido- and -*o*-nitro-anilides and -*m*-amido- and -*m*-nitro-*p*-toluidides (LELMANN), 1884, A., 51.
- Phenylsulphone-*δ*-amidovaleric acid (SCHOTTEN and SCHLÖMANN), 1892, A., 354.
- Phenylsulphone-*mono*- and -*di*-bromacetones (R. and W. OTTO), 1888, A., 282.
- Phenylsulphone-*di*bromamide (HOOGWERFF and VAN DORP), 1888, A., 1194.
- α*-Phenylsulphone-*α*-bromopropionic acid (OTTO), 1890, A., 381.
- α*-Phenylsulphonebutyric acid (R. and W. OTTO), 1888, A., 577.
- β*-Phenylsulphone-crotonic and -*isocrotonic* acids (AUTENRIETH), 1891, A., 203.
- Phenylsulphone ethylic alcohol, and its derivatives (OTTO and DAMKÖHLER), 1885, A., 262.

- Phenylsulphone-ethylic sulphate and chloride** (OTTO and DAMKÖHLER), 1885, A., 262, 263.
- Phenylsulphonehydroxypropionic acid, *p*-chloro-** (KÖNIG), 1892, A., 1091.
- Phenylsulphonephenylbenzenylamidine** (WALLACH), 1883, A., 48.
- Phenylsulphonephenylhydrazine** (ESCALES), 1885, A., 798.
- α -Phenylsulphonepropionic acid** (OTTO), 1890, A., 381.
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- β -Phenylsulphonepropionic acid** (OTTO), 1888, A., 360.
- Phenylsulphonepropionic acid, *p*-chloro- α -amido-** (KÖNIG), 1892, A., 1091.
- Phenylsulphonetetrahydroquinoline** (SCHOTTEN and SCHLÖMANN), 1892, A., 355.
- Phenyltaurine and its salts** (ANDREASCH), 1883, A., 664.
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- Phenyltaurocyamine**, formation of (JAMES), 1885, T., 373.
- Phenyltetrahydro- α - and - β -naphthalbenzyl-carbamides and -thiocarbamides** (BAMBERGER and HELWIG), 1889, A., 1198.
- 2'-Phenyltetrahydro- α -naphthaquinoline** (DOEBNER and KUNTZE), 1889, A., 412.
- Phenyl- α -tetrahydronaphthyl-carbamide and -thiocarbamide** (BAMBERGER and ALTHAUSSE), 1888, A., 960.
- 1-Phenyl- Δ^2 -tetrahydrodipicoline** (LIPP), 1892, A., 1244.
- 3'-Phenyltetrahydroquinazoline** (PAAL and BUSCH), 1890, A., 73.
2'-thio- (SÜDERBAUM and WIDMAN), 1889, A., 973; (BUSCH), 1892, A., 1495.
- 2'-Phenyltetrahydroquinoline and its nitroso-derivative** (DOEBNER and V. MILLER), 1886, A., 722.
m-amido- and *m*-nitro- (V. MILLER and KINKELIN), 1885, A., 1145.
- Phenyltetra-*m*-hydroxydiphenylmethane, *p*-nitro-** (SIBONI), 1892, A., 621.
- Phenyltetra-*p*-hydroxydiphenylmethane, *o*-nitro-** (SIBONI), 1892, A., 621.
- Phenyltetra-*p*-hydroxydiphenylmethanes, *m*- and *p*-nitro-** (BERTONI and ZENONI), 1892, A., 620.
- Phenyltetramethylenic dibromide and glycol** (MARSHALL and PERKIN), 1891, T., 890.
- Phenyltetramethylpyrazolone** (1- ψ -*cinnylmethyloxyquinoline*) and its oxime (HALLER), 1885, A., 818.
- Phenyltetrazenylamidoxime** (BLADIN), 1889, A., 979.
- Phenyltetrazolecarboxylic acid, amido- and nitro-** (BLADIN), 1892, A., 1009.
- Phenyltetrazolecarboxylthiamide** (BLADIN), 1892, A., 638.
- Phenyltetric acid** (MOSCHELES and CORNELIUS), 1888, A., 1272.
- Phenyltetrose** (FISCHER and STEWART), 1892, A., 1447.
- m*-Phenylthiamidobenzoic acid** (ASCHAN), 1884, A., 907.
- α -Phenylthiazole** (ARAPIDES), 1889, A., 414; (POPP), 1889, A., 725.
- μ -Phenylthiazole** (HUBACHER), 1891, A., 221.
- Phenylthiazoline** (HANTZSCH and TRAUMANN), 1888, A., 573; (GABRIEL and HEYMANN), 1890, A., 524.
- Phenylthiazylamine** (TRAUMANN), 1889, A., 415.
- Phenylthienylmethane** (PETER), 1884, A., 1001.
- α -Phenyl*d*ithiobiuret** (HECHT), 1892, A., 704; (FROMM), 1892, A., 844.
- Phenyl*d*ithiocarbamic thioanhydride** (LOSANITSCH), 1892, A., 55.
- Phenylthiocarbamide** (BERTRAM), 1890, A., 1291; 1892, A., 465.
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- Phenylthiocarbamide allylic, benzylic, ethylic, methylic and propylic cyanides** (HECHT), 1890, A., 1104.
- Phenylthiocarbamine*s*obutyleamide** (HECHT), 1892, A., 703.
- Phenylthiocarbimide**, preparation of (WERNER), 1891, T., 398.
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- Phenylthiocarbimide**, action of benzaldehyde and of benzoic acid on (COHEN), 1891, T., 67.
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- Phenylthiocarbimide-aldehyde-ammonia**, and action of silver nitrate on (DIXON), 1892, T., 518, 521.
- α -Phenyl-*l*-thiodimethylketuret** (FROMM), 1892, A., 844.
- Phenylthio-hydantoic acid** and -hydantoin (ASCHAN), 1884, A., 907.
- Phenylthiophen** and its derivatives (RENARD), 1890, A., 134.
- α -Phenylthiophen**, synthesis of (KUES and PAAL), 1887, A., 238.
- Phenylthiophen-*di*- and -*tetra*-sulphonic acids** (RENARD), 1890, A., 134.
- Phenylthiosalicylic acid**. See *o*-Phenoxybenzoic acid.
- o*-Phenylthio-uramidocinnamic acid** (ROTHSCHILD), 1890, A., 1123; 1891, A., 198.
- Phenylthiouramido-*p*-tolylurethane** (*thiocarbamidotolylurethane*) (SCHIFF and VANNI), 1890, A., 1125; 1892, A., 600.
- Phenylthiourethane** (SCHIFF and VANNI), 1892, A., 600.
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- Phenyltoluene**. See Methylidiphenyl-.
- Phenyl-*m*-toluidine**, *trinitro*-. See *tri*-Nitranilidololuene.
- Phenyl-*p*-toluidine** and its derivatives (BÜCH), 1885, A., 147; (BONNA), 1887, A., 927; (REICHOLD), 1890, A., 609.
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- p*-Phenyltolylacetonitrile** (NEURE), 1889, A., 597; (MICHAEL and JEAN-PRÉTRE), 1892, A., 1094.
- Phenyltolylbenzylacetoneitrile** (NEURE), 1889, A., 597.
- Phenyl-*p*-tolylbenzylbiuret** (KÜHN and HENSCHER), 1888, A., 474.
- Phenyl-*p*-tolylbenzylcarbamide** (HAMMERICH), 1892, A., 1083.
- Phenyl-*m*-tolylcarbamide** (v. BUCHKA and SCHACHTEBECK), 1889, A., 702.
- Phenyl-*o*-, -*m*-, and -*p*-tolylcarbinyamines** (GOLDSCHMIDT and STÖCKER), 1890, A., 1480, 1479.
- Phenyl-*m*-tolylcarbinyllcarbamide** (*homobenzhydryllcarbamide*) (GOLDSCHMIDT and STÖCKER), 1891, A., 1480.
- Phenyl-*p*-tolylcarbinyll-phenylcarbamide** and -thiocarbamide (GOLDSCHMIDT and STÖCKER), 1891, A., 1480.
- Phenyl-*o*-tolylldiketodihydropyrazine** (ABENIUS), 1890, A., 270.
- Phenyl-*o*-tolylldiketopyrazine**, *dichloro*- (ABENIUS), 1890, A., 526.
- Phenyl-*o*- and -*p*-tolyl- α -diketopiperazines** (BISCHOFF and HAUSDÖRFER), 1890, A., 1285, 1286.
- Phenyl-*p*-tolylethylene**. See *p*-Methylstilbene.
- Phenyl-*p*-tolylethylthiocarbamide** (GEBHARDT), 1884, A., 1321.
- Phenyl-*m*-tolylmethane** and *dinitro*- (SENFF), 1884, A., 427.
- Phenyltolylmethanes**, *di*amido- (ULLMANN), 1888, A., 288.
- 5-Phenyl-1-*o*- and -*p*-tolyl-2-methylpyrrolines** and their 3-carboxylic acids (LEDERER and PAAL), 1886, A., 75.
- Phenyl-*o*-tolylmethylthiocarbamide**, action of aniline on (GEBHARDT), 1885, A., 383.
- Phenyl-*p*-tolylmethylthiocarbamide** (GEBHARDT), 1884, A., 1321; 1885, A., 383.
- Phenyltolylpropane** (KRAEMER and SPIELKER), 1891, A., 207.
- $\alpha\beta$ -Phenyl-*o*-, -*m*- and -*p*-tolylpropanes** (KRAEMER, SPIELKER and EBERHARDT), 1891, A., 207.
- Phenyl-*o*-tolylsemithiocarbazides** [m. p. 163 and 146] (DIXON), 1890, T., 258, 259.
- Phenyl-*p*-tolylsemithiocarbazides** [m. p. 173 and 172] (DIXON), 1892, T., 1013.
- Phenyl-*p*-tolylsulphone** (OTTO), 1885, A., 536.
- Phenyl-*p*-tolylthiocarbamide**. *o*- and *m*-nitro- (STEUDEMANN), 1884, A., 307.

- Phenyltriazolecarboxylic acid** (BLADIN), 1890, A., 1166.
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- Phenyltriazolecarboxylic acid** and its salts (BLADIN), 1890, A., 1165; 1891, A., 472.
- n*-**Phenyltrihydrothiazole** (FOERSTER), 1888, A., 946.
- Phenyltrimethylammonium chloride** and hydroxide, action of heat on (COLLIE and SCHRYVER), 1890, T., 777.
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- Gal-Phenyltrimethylene-2:3-dicarboxylic acid** (BUCHNER), 1888, A., 1275; (BUCHNER and DESSAUER), 1892, A., 849.
- Gal-Phenyltrimethylene-2:2:3-tricarboxylic acid** (BUCHNER and DESSAUER), 1892, A., 849.
- Phenyltrimethylenimine** (BALBIANO), 1889, A., 252.
- Phenyltrimethylmethane.** See *tert*-Butylbenzene.
o- and *p*-amido- (SEŃKOWSKI), 1890, A., 1296; 1892, A., 44.
- Phenyltrimethylphenylacetone nitrile** (MICHAEL and JEANPRÉTRE), 1892, A., 1094.
- Phenyltrimethylphenylcarbinol** (*phenylmesitylphenylcarbinol*) (LOUISE), 1886, A., 542.
- Phenyltrimethylpyrazole derivatives** (HALLER), 1885, A., 818.
- 1-Phenyl-3:5:5-trimethylpyrazoline** (FISCHER and KNOEVENAGEL), 1887, A., 933.
- 1-Phenyl-3:4:4-trimethylpyrazolone** (KNORR), 1887, A., 601.
- Phenyltrimethylpyrazolinduline** (FISCHER and HEPP), 1890, A., 909.
- Phenyltri- β -naphthylcarbamide** (PASCHKOWETZKY), 1892, A., 167.
- Phenyltripropylguanidine** (FRANCKSEN), 1884, A., 1008.
- β -Phenylumbelliferone** (v. PECHMANN and DUISBERG), 1884, A., 67.
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- Phenyluracil**, imido- (JAEGER), 1891, A., 1007.
- Phenyluramidobenzoic acid** (KÜHN), 1885, A., 260.
- Phenyl- β -uramidopropionic acid** (HOOGWERFF and VAN DORP), 1891, A., 197.
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- Phenyluranilidoacetic acid** (KOSSEL), 1892, A., 468.
- Phenylurazole** (PINNER), 1887, A., 1043; (SKINNER and RUHEMANN), 1888, T., 554.
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p-chloro- (HEWITT), 1891, T., 212.
- Phenylurethane**, *p*-amido-, and *p*-nitro-, and their derivatives (HAGER), 1885, A., 149.
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- Phenylvaleric acid**, derivatives of (ANSCHÜTZ and BERNs), 1891, A., 913.
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- Phenyl- γ -valeric acid**, bromo- (FITTIG and STERN), 1892, A., 988.
*di*bromo-, decomposition of (FITTIG and STERN), 1892, A., 987.
- Phenylisovaleric acid**, bromo- (FITTIG and LIEBMANN), 1890, A., 776.
- Phenylvalerolactone** and bromo- (FITTIG and STERN), 1892, A., 987, 988.
- Phenylvalerolactonecarboxylic acid**, and its salts (WELTNER), 1885, A., 793.
- Phenylisovalerolactone** (FITTIG and LIEBMANN), 1890, A., 776.
- Phenylxanthogenamide**, formation of (BAMBERGER), 1883, A., 185.
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 β -iodo-, preparation of (MEYER), 1887, A., 232; 1888, A., 360.
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 β -nitroso- (V. PECHMANN), 1891, A., 1458; (HANTZSCH), 1892, A., 1069.
 β -sulpho- (CIAMICIAN and MAGNAGHI), 1886, A., 226; (ROSENTHAL), 1886, A., 866.

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- Propionylacetophenone** (*phenyl ethyl methylene diketone*) (BEYER and CLAISEN), 1887, A., 943.
- Propionylacetylphenylhydrazone** (JAPP and KLINGEMANN), 1888, T., 540.
- α -Propionylacrylic acid** (HANTZSCH and WOHLBRÜCK), 1887, A., 717.
- p*-Propionylanisoil** (GATTERMANN, EHRHARDT and MAISCH), 1890, A., 963.
- Propionylbenzoic acid**, *o*-pentachloro- (ZINCKE and COOKSEY), 1890, A., 785.
- Propionylbenzoyl** (MÜLLER and V. PECHMANN), 1889, A., 1171.
- Propionyl-*l*-bromonitrophenol** and **-chloro-*l*-bromophenol** (GARZINO), 1890, A., 1107.
- Propionylcodeine**, and its derivatives (HESSE), 1884, A., 614.
- Propionyl-*m*-diethoxybenzene** (GATTERMANN, EHRHARDT and MAISCH), 1890, A., 964.
- α -Propionylethyl cyanide**. See Methylpropionylacetoneitrile.
- 1:3:4-Propionylthomoferulic acid** (TIE-MANN and KRAAZ), 1883, A., 200.
- Propionylhydroxamic acid** (MIOLATI), 1892, A., 699.
- Propionylmesitylene**, action of hydroxylamine hydrochloride on (FEITH and DAVIES), 1892, A., 314.
- Propionyl- α -naphthol** and **- α -naphtholazobenzene** (GOLDZWEIG and KAISER), 1891, A., 447.
- Propionyl-naphtholphenylhydrazone** (GOLDZWEIG and KAISER), 1891, A., 447.
- Propionyl- α -naphthyl methyl oxide** (GATTERMANN, EHRHARDT and MAISCH), 1890, A., 964.
- Propionyl-*l*-nitrophenol** (GOLDZWEIG and KAISER), 1891, A., 447.
- Propionylopianic acid** (LIEBERMANN and KLEEMANN), 1887, A., 47.
- p*-Propionylphenetol** (GATTERMANN, EHRHARDT and MAISCH), 1890, A., 964.
- p*-Propionylphenol** (*hydroxyphenyl ethyl ketone*) (PERKIN), 1889, T., 547; (GOLDZWEIG and KAISER), 1891, A., 447.
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- Propionylpropaldehyde** (CLAISEN and MEYEROWITZ), 1890, A., 357.
- α -Propionylpropionamide** (OTTO and TRÖGER), 1889, A., 957.
- β -Propionylpropionic acid** (*homolevulinic acid*) and its dioximes (ZANETTI), 1892, A., 351; (FITTIG and HILLERT), 1892, A., 961.
- Propionylpropionitrile** (V. MEYER), 1889, A., 114; (BOUYEAULT), 1891, A., 51.
- 1-Propionylpyrroline** (DENNSTEDT and ZIMMERMANN), 1887, A., 844.
- Propionylquinol** and its hydrazone (GOLDZWEIG and KAISER), 1891, A., 447.
- Propionylresorcinol** and its hydrazone (GOLDZWEIG and KAISER), 1891, A., 447.
- Propionylsodacetaldehyde** (CLAISEN and STYLOS), 1888, A., 671.
- Propiophenone** (*phenyl ethyl ketone*) and its derivatives (PAMPEL and SCHMIDT), 1887, A., 252.
- amido-, hydrochloride (SCHMIDT), 1890, A., 372.
- nitroso- (V. PECHMANN and MÜLLER), 1888, A., 1088; (CLAISEN and MANASSE), 1889, A., 585; (GUDE-MAN), 1889, A., 613.
- Propiophenone-*o*-carboxylamide** (GABRIEL), 1886, A., 620.
- Propiophenone-*o*-carboxylic acid**, *pentachloro-* (ZINCKE and COOKSEY), 1890, A., 785.
- Propiothienone** and its derivatives (KRECKELER), 1886, A., 539.
- Propoxybenzamide** (FILETI and AB-BOŃA), 1892, A., 595.
- Propoxybenzene** (*phenyl propyl ether*), heat equivalent of (STOHMANN, RODATZ and HERZBERG), 1887, A., 428.
- γ -bromo- (LOHMANN), 1891, A., 1467.
- γ -chloro- (GABRIEL), 1892, A., 717.
- p*-Propoxybenzoic acid** (REMSEN and GRAHAM), 1889, A., 975.
- Propoxybenzonitrile** (FILETI and AB-BOŃA), 1892, A., 595.
- Propoxybromosalicylic acid** (PERA-TONER), 1887, A., 487.
- 4-Propoxy- β -naphthaquinone**, 3-chloro- (ZINCKE), 1888, A., 710.
- Propoxypropylanthracene** (HALLGAR-TEN), 1889, A., 895.
- Propyl**, change of, into *isopropyl* in the cumenes (WIDMAN), 1891, A., 45.
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- Propyl hexyl ketone** (WAGNER), 1892, A., 35.
- Propyl- and *isopropyl*-acetanilide** (PIC-TET), 1890, A., 758.
- iso*Propylacetic acid**. See *iso*Valeric acid.
- iso*Propylacetone**, oxime of (WESTEN-BERGER), 1884, A., 581.
- iso*Propylacetonylphosphinic acid**, and its salts (MICHAELIS), 1884, A., 901; 1885, A., 747.

- Propylacetothienone.** See Propylthienyl methyl ketone.
- isoPropylacetylene.** See Pentinene.
- Propyl- and isopropyl-acetylenecarboxylic acids** (FAWORSKY), 1888, A., 1169.
- Propylacridine** (VOLPI), 1892, A., 343.
- Propylaldoxime** (PETRACZEK), 1883, A., 569.
- Propylallylamine and its platinochloride** (LIEBERMANN and PAAL), 1883, A., 909.
- Propylallylthiocarbamide** (HECHT), 1890, A., 476; (AVENARIUS), 1891, A., 549.
- Propylamidoacetic acid** (CHANCEL), 1892, A., 804.
- Propylamine** (VINCENT), 1886, A., 1004. preparation of (MALBOT), 1887, A., 652. magnetic rotatory power of (PERKIN), 1889, T., 692, 730. molecular refraction and dispersion of (GLADSTONE), 1891, T., 296. derivatives of (GABRIEL and WEINER), 1888, A., 1292; (GABRIEL and LAUER), 1890, A., 472; (LAUER), 1890, A., 1089; (CHANCEL), 1892, A., 804. β -bromo-, derivatives of (HIRSCH), 1890, A., 859. γ -bromo-, derivatives of (GABRIEL and WEINER), 1888, A., 1293. hydrobromide (LAUER), 1890, A., 1090. 2:3-dibromo-, hydrobromide (PAAL and HERMANN), 1890, A., 228. tribromo- (PAAL), 1889, A., 117. hydrobromide (PAAL and HERMANN), 1890, A., 229. thio-derivatives of (COBLENTZ), 1891, A., 1216.
- Propylamines and their derivatives** (CHANCEL), 1892, A., 804.
- isoPropylamine, $\alpha\beta$ -dithiocyano-, and its derivatives** (TCHERNIAC and NORTON), 1884, A., 664.
- isoPropylamines** (H. and A. MALBOT), 1891, A., 166.
- Propylaminenitrobenzamide, γ -bromo-** (ELFELDT), 1892, A., 214.
- Propylammonium propylthiocarbamate** (HECHT), 1890, A., 476.
- Propylisoamylamine, dibromo-, and its hydrobromide** (PAAL), 1889, A., 118.
- Propylisoamylglyoxalines, *n*- and iso-(*normalisoamyl-n*- and -*iso-butyl*lines)** (RIEGER), 1889, A., 119.
- p*-isoPropyl *n*-isoamyltoluene** (CLAUS), 1892, A., 935.
- Propylaniline** (DOEBNER and v. MILLER), 1884, A., 1376; (PICTET), 1890, A., 758. *p*-nitroso- (WACKER), 1888, A., 466. **isoPropylaniline** (PICTET and CRÉPIEU), 1888, A., 689; (PICTET), 1890, A., 758.
- Propylanilinenitrosamine, *p*-nitroso-** (WACKER), 1888, A., 466.
- Propylazaurolic acid** (MEYER and CONSTAM), 1883, A., 41.
- Propylbenzamide** (FILETI), 1887, A., 43. β -bromo- (HIRSCH), 1890, A., 860. γ -bromo- (GABRIEL and ELFELDT), 1892, A., 212. β -chloro- (GABRIEL and HEYMANN), 1890, A., 1268. γ -chloro- (GABRIEL and ELFELDT), 1892, A., 213.
- Propylbenzene.** See *n*-Cumene.
- isoPropylbenzene.** See Cumene.
- Propylbenzoic acid.** See *n*-Cuminic acid.
- isoPropylbenzoic acid.** See *iso*Cuminic acid.
- Propylbenzonitrile.** See Propyldiphenylic cyanide.
- p*-Propylbenzophenone and its oximes** (SMITH), 1892, A., 488.
- p*-isoPropylbenzophenone and its oximes** (SMITH), 1892, A., 489.
- Propylbenzoyl ethylic cyanide** (*propylbenzoylpropionitrile*), imido- (BURNS), 1891, A., 889.
- isoPropylbenzoylformic acid** (*isopropylphenylglyoxylic acid*) (FILETI and AMORETTI), 1891, A., 1060.
- Propylbenzylamine** (ZAUNSCHIRM), 1888, A., 1077.
- isoPropylbenzylamine.** See Cuminyllamine.
- Propylisobutanetricarboxylic acid** (BISCHOFF and TIGERSTEDT), 1890, A., 1103.
- Propylbutylamine, dibromo-** (PAAL), 1889, A., 117.
- Propylisobutylamine** (PAAL and HEUPEL), 1892, A., 32. dibromo- (PAAL), 1889, A., 117.
- isoPropylisobutylethylene glycol** (FOSSEK), 1884, A., 833; (SWOBODA and FOSSEK), 1891, A., 31.
- Propyl-*n*- and -*iso*-butylglyoxalines** (*normal-n*- and -*iso-butylbutyl*lines) (RIEGER), 1889, A., 119.
- Propylisobutylglyoxaline** (*normalpropylisobutyl*line) (RADZISZEWSKI), 1884, A., 986.
- a*-isoPropyl- β -isobutylhydracrylic acid** (WOHLBRÜCK), 1887, A., 1100.

- Propylisobutylquinol** (FIALA), 1886, A., 454.
- 3'-Propyl-2'-butylquinoline**, and its salts (DOERNER and V. MILLER), 1884, A., 1376.
- 3'-isoPropyl-2'-isobutylquinoline** (SPADY), 1886, A., 263.
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- p*-**isoPropyl-*n*- and -iso-*o*-butyltoluenes** (CLAUS), 1892, A., 985.
- Propylcarbamide** (CHANCE), 1892, A., 1421.
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- α -Propyl- β -chlorocinnamic acid** (PERKIN and CALMAN), 1886, T., 163.
- α -isoPropylcinchonic acid** (DOEBNER), 1887, A., 504.
- isoPropylcinnamaldehyde**. See α -Cumylacetaldehyde.
- isoPropylcinnamic acid**. See Cumylacrylic acid.
- Propylcinnamoylamides**, β - and γ -bromo- (ELFELDT), 1892, A., 215.
- α -isoPropylcoumarin**, derivatives of (ALDRINGEN), 1892, A., 330.
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- α -isoPropyl-coumaroxime and -coumarphenylhydrazide** (ALDRINGEN), 1890, A., 624.
- isoPropyl-*m*-cresol** and its derivatives (MAZZARA), 1883, A., 463.
- Propyleyanocamphor** (HALLER), 1891, A., 1499.
- Propyl- and isoPropyl-deoxybenzoin** (BISCHOFF), 1889, A., 512.
- Propyldiallylcarbinol**. See Decylylic alcohol.
- 3'-isoPropyldihydroindole** (TRENKLER), 1889, A., 260.
- Propyldiphenylic tricyanide** (KRAFFT and V. HANSEN), 1889, A., 697.
- Propylene**, formation of, from glycerol (CLAUS), 1886, A., 136.
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- Propylene**, 1-amido- (HIRSCH), 1890, A., 860.
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- Propylene**, bromonitro- (ASKENASY and MEYER), 1892, A., 1064.
 α -chloro- and *iso*- α -chloro- (WISLICENUS), 1887, A., 656; (WISLICENUS, TEISLER and LANGBEIN), 1889, A., 236.
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- Propylene chlorhydrin**, constitution and oxidation of (MORLEY and GREEN), 1885, T., 132; P., 3.
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- Propylene ethylphenylketate**, preparation and oxidation of (MORLEY and GREEN), 1885, T., 135.
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- 1:2-Propylene glycol** (*trimethyl glycol*), formation of, from acetylcarbinol (PERKIN), 1891, T., 796.
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- 1:3-Propylene glycol** (*trimethylene glycol*) (NIEDERIST), 1883, A., 450.
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- Propylene mercaptan** (HAGELBERG), 1890, A., 950.
- Propylene oxide**, heat of combustion of (BRÜHL), 1891, A., 633.
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- Propyleneacetal** (DE GRAMONT), 1884, A., 35.
- Propyleneallyl- ψ -thiocarbamide** (HIRSCH), 1890, A., 861.
- Propyleneazo-**. See Azo-.
- 4-isoPropylenebis-1- and -3-phenylmethylpyrazolone** (KNORR), 1887, A., 602.
- Propylenecarbamide** (GABRIEL), 1890, A., 128.
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- Propylene- ψ -carbamide** (HIRSCH), 1890, A., 859.
- Propylenediamine**, derivatives of (STRACHE), 1888, A., 1172.
- Propylenediisocamylamine acetate and benzoate** (LOUISE), 1889, A., 118.
- Propylenedicarboxylic acid**. See Glutaric acid.
- Propylenediphenyldisulphone** (STUFFER), 1890, A., 988; 1891, A., 181.
- Propylenedisulphonic acid**. See 1:2-Propanedisulphonic acid.
- Propylene-ethenyldiamine** (*ethenyl-propylenediamine*) (V. Hofmann), 1888, A., 1051.
- Propyleneglycolcarboxylic acid**. See $\alpha\beta$ -Dihydroxybutyric acid.
- Propylene-oxamic acid and -oxamide** (STRACHE), 1888, A., 1173.
- Propyleneoxycarboxylic acid**. See β -Methylglycidic acid.
- Propylene- ψ -selenocarbamide hydrobromide** (FITTIG and DUBOIS), 1890, A., 880.
- Propylenesuccinimide** (STRACHE), 1888, A., 1173.
- Propylenethiocarbamide methiodide** (GABRIEL), 1890, A., 128.
- Propylene- ψ -thiocarbamide** (GABRIEL), 1890, A., 127; (HIRSCH), 1890, A., 859.
- Propylenic bromide**, conversion of trimethylenic bromide into (GUSTAVSON), 1888, A., 240.
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- Propylethenyltricarboxylic acid**. See *n*-Pentametricarboxylic acid.
- Propylethyl-**. See Ethylpropyl-
- isoPropylethylene**. See α -isoAmylene.
- Propylethylic cyanide**, oxime of. See Methyllethylisooxazole, amido-.
- α -imido- (*imidohexanitride*) (V. MEYER), 1889, A., 114.
- isoPropylformamide** (SPICA), 1887, A., 1028.
- Propylformanilide** (PICTET and CRÉPIEU), 1888, A., 689; (PICTET), 1890, A., 758.
- Propylisoformanilide** (COMSTOCK and CLAPP), 1892, A., 708.
- isoPropylformanilide** (PICTET and CRÉPIEU), 1888, A., 689; (PICTET), 1890, A., 758.
- Propylformimide hydrochloride** (PINER), 1883, A., 1089.
- isoPropylformonaphthylamide** (SPICA), 1887, A., 1028.
- Propylglyoxaline** (*glyoxalbutyline*) (RIEGER), 1889, A., 119.
- p-Propylglyoxaline** (WALLACH), 1883, A., 911.
- isoPropylglyoxaline** (*glyoxal isobutyline*) (RADZISZEWSKI), 1883, A., 1086; (RIEGER), 1889, A., 120.
- Propyl-group in cymene**, nature of the (WIDMAN), 1891, A., 686.
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- Propylhexamethylene** (BAMBERGER and LENGELD), 1890, A., 1320.
- Propylhexylglyoxaline** (*oxalpropyl- α nanthyline*) (KARCY), 1887, A., 911.
- α -Propylhomopiperidinic acid** (ASCHAN), 1891, A., 467.
- Propylhydrocarbostyryl** (WIDMAN), 1887, A., 132.
- p-Propylhydrocinnamic acid** (*propylphenylpropionic acid*) (WIDMAN), 1887, A., 133.
- Propylic alcohol**, vapour pressures of (RICHARDSON), 1886, T., 763, 771, 773; (SCHMIDT), 1892, A., 397.
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- isoPropylic alcohol**, action of bromine on (ETARD), 1892, A., 809.
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- Propylic salts of normal fatty acids**, boiling points and specific volumes of (GRIFFIN and STELLER), 1886, A., 966.

- Propylic acetate, dibromo-** (ASCHAN), 1890, A., 1084.
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 o -sulphaminebenzoate (REMSEN and DOHME), 1889, A., 992.
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- Propylidene diethyl and dimethyl ethers** (NEWBURY and BARNUM), 1891, A., 284.
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- Propylideneacetic acid** (*pentenoic acid*) from malonic acid and from *o*-amidophenol (ZINCKE and KÜSTER), 1891, A., 821.
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- iso***Propylidene-*p*-amidophenol** (HAEGELE), 1892, A., 1451.
- Propylideneaniline** (v. MILLER and PLÖCHL), 1892, A., 1191.
- Propylenediacyetic acid** (KOMNENOS), 1884, A., 423.
- Propylenediethyldisulphone** (BAUMANN and KAST), 1889, A., 1232; (FROMM), 1890, A., 56.
- iso***Propylenediethyldisulphone**. See Diethylsulphonedimethylmethane and Sulphonal.
- Propylenedimethyldisulphone** (BAUMANN and KAST), 1889, A., 1232.
- iso***Propylenediphenol** (DIANIN), 1889, A., 1187.
- Propylenepropaldehyde** (LIEBEN and ZEISEL), 1883, A., 570.
- iso***Propylindene**, amido- (v. MILLER and RÖHDE), 1889, A., 984.
- 3'*-*iso***Propylindole** (TRENKLER), 1889, A., 259.
- Propylitaconic acid** (FITTIG and SCHMIDT), 1890, A., 589.
- Propylitamalic acid**, salts of (FITTIG and SCHMIDT), 1890, A., 588.
- iso***Propylitamalic acid**, salts of (FITTIG and ZANNER), 1890, A., 590.
- Propyllupetidine** (2:6-dimethyl-4-propylpyridine) (JAECKLE), 1888, A., 1104.
- Propyllutidine** (2:6-dimethyl-4-propylpyridine) (JAECKLE), 1888, A., 1104.
- Propyllutidinedicarboxylic acid** (2:6-dimethyl-4-propylpyridinedicarboxylic acid) (JAECKLE), 1888, A., 1104.
- iso***Propylmalic acid** (SCHLEICHER), 1892, A., 428.
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- Propylmercaptophthalimide**. See Sulphydropropylphthalimide.
- Propylmethyl**-. See Methylpropyl-.
- β -Propylnaphthalene** (ROUX), 1884, A., 1357; 1888, A., 1305.
- Propyl- α - and - β -naphthylamines** (MINTZ), 1892, A., 1338.
- Propyl- and isopropyl-nitramines** and their derivatives (SIMON-THOMAS), 1891, A., 167.
- Propyl-*m*-nitrobenzamide**, β -bromo (ELFELDT), 1892, A., 213.
- p*-*iso***Propyl-*o*-nitrophenyl- β -bromopropionic acid** (EINHORN and HESS), 1884, A., 1352.
- iso***Propylnitrophenyllactamide** (EINHORN and HESS), 1884, A., 1353.
- iso***Propylnitrophenyllactic acid**, β -lactone of (EINHORN and HESS), 1884, A., 1351.
- p*-*iso***Propyl-*o*-nitrophenyllactic acid** and its salts (EINHORN and HESS), 1884, A., 1353.
- p*-*iso***Propyl-*o*-nitrostyrene** (EINHORN and HESS), 1884, A., 1353.
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- iso***Propylparaconic acid** (FITTIG and ZANNER), 1890, A., 589.
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- p*-**Propylphenylcarbamide** (FRANCKSEN), 1884, A., 1008.
- p*-**Propylphenyldimethylamine** (CLAUS and HOWITZ), 1884, A., 1006.
- iso***Propylphenylformamide** (DE VARDA), 1887, A., 1028.
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- p*-**Propylphenylthiocarbamides** [m.ps. 159 and 63] (FRANCKSEN), 1884, A., 1008; (HECHT), 1890, A., 477.
- p*-**Propylphenylthiocarbimide** (FRANCKSEN), 1884, A., 1008.
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- iso***Propylphosphinecarboxylic acid** (MICHAELIS), 1885, A., 748.
- Propylphosphoric acid** (WINSSINGER), 1888, A., 243.
- iso***Propylisophthalic acid** (DOEBNER), 1890, A., 1283; 1891, A., 1064.
- iso***Propylphthalide** (ROSER), 1885, A., 268.
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- β -bromo- (SEITZ), 1891, A., 1472.

- Propylphthalimide**, γ -bromo- (GABRIEL and WEINER), 1888, A., 1292.
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- β -isoPropylthiophen** [b. p. 158°] (THIELE), 1892, A., 442.
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- isoPropyl-*m*-xylene** (UHLHORN), 1890, A., 1249.
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- isoPropylxylenesulphanilide** (UHLHORN), 1890, A., 1249.
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- Quinolinephenacylic bromide (BAMBERGER), 1888, A., 301.
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- Quinolinequinones and their derivatives (FISCHER and RENOUF), 1884, A., 1370; (MATHÉUS), 1888, A., 965.
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- Quinoline-1-sulphonamide and -sulphonbromamide (HOOGWERFF and VAN DORP), 1889, A., 981.
- Quinoline-4-sulphonamide, 1-chloro- (CLAUS and POSSELT), 1890, A., 522.
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- Quinoltetracarboxylic anhydride** (NEF), 1890, A., 984.
- 2'-Quinolyl disulphide, mercaptan and ethylic sulphide** (ROOS), 1888, A., 500.
- 2'-Quinolylacetaldehyde** (EINHORN), 1886, A., 264, 721; (V. MILLER and SPADY), 1886, A., 265, 370; (CARLIER and EINHORN), 1891, A., 83.
- 2'-Quinolyl-acetic acid and -acetylene** (CARLIER and EINHORN), 1891, A., 84.
- 2'-Quinolylacrylic acid** (V. MILLER and SPADY), 1886, A., 264; (EINHORN and LEHNKERING), 1888, A., 1208.
- 2'-Quinolyl- β -bromopropionic acid** (EINHORN and LEHNKERING), 1888, A., 1208.
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- 1-Quinolylhydrazine** (DUFTON), 1891, T., 756.
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- Succinimide** and its derivatives (LANDSBERG), 1883, A., 476. thermochemistry of (BERTHELOT and FOGH), 1890, A., 1360. action of ammonia on (RUBZOFF), 1886, A., 141. action of hypobromites on (HOOGEWERFF and VAN DORP), 1891, A., 1216. bromo- (KUSSEROW), 1889, A., 1064.
- iso***Succinimide**, alkyl derivatives of (COMSTOCK and WHEELER), 1892, A., 701.
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- Succinimidine nitrite** (LOSSEN), 1892, A., 53.
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- Succinobenzimide** (PINNER), 1890, A., 69.
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- Succinodibenzamic acid** (PELLIZZARI), 1885, A., 533.
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- α -**Succinophenylhydrazide** [m.p. 156°] (HÖTTE), 1886, A., 354; 1887, A., 671.
- β -**Succinophenylhydrazide** [m.p. 199°] (MICHAELIS and HERMENS), 1892, A., 1494.
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- β -Terebangelene** (NAUDIN), 1883, A., 810.
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- Terebenthic acid** (TANRET), 1888, A., 720.

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l-**Terebenthene** (ARMSTRONG), 1891, T., 313.

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- Terpin** (BRÜHL, 1888, A., 491; (WALLACH), 1891, A., 1084.
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- Terpineol** (*terpinol*, *i-terpilenol*, *terpol*) (TANRET), 1885, A., 990; (WALLACH), 1886, A., 70; (WEBER), 1887, A., 596; (BOUCHARDAT and VOIRY), 1887, A., 677; (VOIRY), 1888, A., 962.
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- Terpineols**, action of acids and anhydrides on (LAFONT), 1888, A., 845.
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- Terra cotta lumber**, preparation of (ANON.), 1883, A., 896.
- Tetanine** (BRIEGER), 1888, A., 1317.
- Tetano-cannabine** (HAY), 1883, A., 1156.
- Tetanus** produced by a ptomaine (BRIEGER), 1887, A., 284.
- Tetrabenzoyl-2:4:6-triamidophenol** (HINSBERG and V. UDRÁNSZKY), 1890, A., 371.
- Tetrabenzoylisodulcitol** (RAYMAN), 1887, A., 907.
- Tetrabenzoyl-erythritol and -levulose** (SKRAUP), 1889, A., 1152.
- Tetrabenzoylmethane**, preparation of (PERKIN), 1885, T., 253.
- Tetrabenzoylquinone** (MAQUENNE), 1887, A., 908.
- Tetrabenzylacetonedicarboxylic acid** (DÜNSCHMANN and V. PECHMANN), 1891, A., 674.
- Tetrabenzyl-carbamide and -oxamide** (HAMMERICH), 1892, A., 1083.
- Tetrabenzyl-*m*- and -*p*-phenylenediamines** (MELDOLA and COSTE), 1889, T., 600, 602.
- Tetrabenzylphosphonium compounds** (LEDERMANN), 1888, A., 475.
 iodide (LETTS and BLAKE), 1890, A., 767.
- Tetrabenzylsilicon**, crystalline form of (POLIS), 1886, A., 619.
- Tetrabenzyltrimethylenetrissulphone** (CAMPS), 1892, A., 592.
- Tetra*isobutyl*ic oxalate** (ANSCHÜTZ), 1890, A., 236.
- Tetra*isobutyl*methylenediamine** (EHRENBERG), 1887, A., 1027.
- Tetracetyl*di*amidoapione** (CIAMICIAN and SILBER), 1890, A., 1295.
- Tetracetylamidodihydroxyphenyl-quinol and -quinone** (BAMBERGER), 1884, A., 309.
- Tetracetyl-*α*-diamidophenanthraquinol** (KLEEMANN and WENSE), 1885, A., 1240.
- Tetracetyl*di*amidothymol and its acetate** (MAZZARA), 1891, A., 188.
- Tetracetyl-*di*- and -*tri*-bromobrazileins** (SCHALL and DRALLE), 1890, A., 997.
- Tetracetylenedicarboxylic acid** (V. BAEYER), 1885, A., 1199.
- Tetracetyلهthylidiresorcinol** (HERZIG and ZEISEL), 1891, A., 75.
- Tetracetylexanthic acid** (HERZIG), 1892, A., 1354.
- Tetracetylhydrindigotin** (LIEBERMANN), 1892, A., 480.
- Tetracetylhydroxyanthranol** (LIEBERMANN), 1888, A., 717.
- Tetracetylmucic acid** (MAQUENNE), 1888, A., 676.
- Tetracetylpenterythritol** (TOLLENS and WIGAND), 1892, A., 128.
- Tetracetylphenolglucoside** (MICHAEL), 1884, A., 439.
- Tetracetylquinic acid** (ERWIG and KOENIGS), 1889, A., 991.
- Tetracetylquinol**, 2-chlor-3:6-*di*amido- (KEHRMANN and TIESLER), 1890, A., 243.
- Tetracetylrosaniline** (RENOUF), 1883, A., 981.
- Tetracetyl*isosaccharic* acid** (TIEMANN and HAARMANN), 1886, A., 690.
- Tetracetylsativic acid** (HAZURA), 1887, A., 799.
- Tetracresotide** (BARGIONI and SCHIFF), 1888, A., 838.
- Tetradecahydroanthracene** (LUCAS), 1888, A., 1201; 1890, A., 637.
- Tetradecaldoxime and tetradecylamine** (KRAFFT), 1890, A., 1234.
- Tetradecane** (*dihexyl*) (SORABJI), 1885, T., 40; (KRAFFT), 1886, A., 998.

- Tetradecenoic acid** (*heptylpentylacrylic acid*; $C_{14}H_{26}O_2$) (PERKIN), 1883, T., 48, 62, 66.
- Tetradecenoic aldehyde** ($C_{14}H_{26}O$) (PERKIN), 1883, T., 49.
- Tetradecenyl alcohol** (*heptylpentyl-ethyl alcohol*; $C_{14}H_{28}O$) (PERKIN), 1883, T., 54.
- Tetradecinene** (*methylundecylacetylene*) (KRAFFT and REUTER), 1892, A., 1164.
- Tetradecic acid** (*heptylpentylacetic acid*; $C_{14}H_{28}O_2$) (PERKIN), 1883, T., 75, 79.
- Tetradecylacetylene** (KRAFFT and REUTER), 1892, A., 1163.
- Tetradecylene**, preparation of (KRAFFT), 1884, A., 571.
- Tetradecylenic bromide** (KRAFFT), 1884, A., 1108.
- Tetradecyl alcohol**, preparation of (KRAFFT), 1883, A., 1075.
- Tetradecylidene** (KRAFFT), 1884, A., 1108.
- Tetradecyl-malonamic and -malonic acids** (HELL and IORDANOFF), 1891, A., 821.
- Tetradymite** from Arizona (GENTH), 1891, A., 154.
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- Tetraethyl-**. See Tetrethyl-.
- Tetragalactangeddic acid** (O'SUL-LIVAN), 1891, T., 1069.
- Tetrahedrite** (*fahlore*) (GONNARD), 1885, A., 220.
of Příbram (BABÁNEK), 1886, A., 514.
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- Tetrahydrozoresorufin** (BRUNNER and KRAEMER), 1884, A., 1334.
- Tetrahydroacenaphthene** (BAMBERGER and LODTER), 1888, A., 292; (LIEBERMANN and SPIEGEL), 1889, A., 720.
- Tetrahydro- γ -anthracenecarboxylic acid** (BÖRNSTEIN), 1884, A., 330.
- Tetrahydrobenzoic acid** and its derivatives (ASCHAN), 1891, A., 1053.
- Tetrahydrobenzoic acids**, Δ^1 - and Δ^2 - and their derivatives (ASCHAN), 1891, A., 1481.
- Tetrahydrocarbazolecarboxylic acid** (v. BAeyer and TUTEIN), 1889, A., 1181.
- Tetrahydrocinchonic acid**, hydrochloride of (WEIDEL and HAZURA), 1885, A., 561.
- Tetrahydrodibenzylidene-2:6-lutidine** (SCHUSTER), 1892, A., 1361.
- Tetrahydrodicollidine**, and its derivatives (HANTZSCH), 1883, A., 84.
- Tetrahydrodicoumaric acid** and its salts (DYSON), 1887, T., 68.
- Tetrahydrodicoumarin** (DYSON), 1887, T., 70.
- Tetrahydrodiphenyl** (BAMBERGER and LODTER), 1888, A., 293.
- Tetrahydrodiphenylic dibromide** and its bromo-derivative (BAMBERGER and LODTER), 1888, A., 604.
- Tetrahydrodiquinoline** (FRIEDLÄNDER and WEINBERG), 1885, A., 990.
- Tetrahydroharmin** (FISCHER), 1889, A., 730.
- Tetrahydro- α -naphthabenzylamine** (BAMBERGER and LODTER), 1887, A., 719.
- Tetrahydro- β -naphthabenzylamine** (BAMBERGER and BOCKMANN), 1887, A., 840.
- Tetrahydronaphthalene** (GRAEBE and GUYE), 1884, A., 608.
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- Tetrahydro- α -naphthalene** (BAMBERGER and BORDT), 1889, A., 717; (BAMBERGER and KITSCHOLT), 1890, A., 1146.
- Tetrahydro- α -naphthalene, *ar*-amidoazo-** (BAMBERGER and LENGELD), 1890, A., 1305.
- Tetrahydronaphthaleneazo- α -naphthylamine**, and -resorcinol (BAMBERGER and BORDT), 1889, A., 715.
- Tetrahydronaphthaleneazo- β -naphthylamine**, 1:4'-amido- (BAMBERGER and BAMMANN), 1889, A., 783.
- $\beta\beta$ -Tetrahydronaphthalenedicarboxylic acid** (PERKIN), 1888, T., 11, 20.
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- $\beta\beta$ -Tetrahydronaphthalenedicarboxylic anhydride** (PERKIN), 1888, T. 12.
- Tetrahydronaphthalenesulphonic acid**, hydrolysis of (FRIEDEL and CRAFTS), 1889, A., 1201.
- Tetrahydronaphthalenesulphonic acids** (GRAEBE and GUYE), 1884, A., 608.
- Tetrahydronaphthalenetetracarboxylic acid** (PERKIN; KIPPING), 1887, P., 93.
- ar*-Tetrahydro- α -naphthamide** (BAMBERGER and BORDT), 1889, A., 716.
- ar*-Tetrahydro- α -naphthaquinol** (BAMBERGER and LENGELD), 1890, A., 1205.
- Tetrahydro- α -naphthaquinoline** and its *p*-amido-derivative (BAMBERGER and STETTENHEIMER), 1891, A., 1258.

- Tetrahydro- β -naphthaquinoline** (BAMBERGER and MÜLLER), 1891, A., 1510.
- ar*-**Tetrahydro- α -naphthaquinone** (BAMBERGER and LENGELD), 1890, A., 1305.
- Tetrahydro-naphthathionine and -naphthindamine** (BAMBERGER), 1890, A., 1300.
- Tetrahydro- α -naphthoic acid** (BAMBERGER and BORDT), 1889, A., 716; (V. BAAYER, SCHÖDER and BESEMFELDER), 1892, A., 192.
- ac*-**Tetrahydro- α -naphthoic acids** (V. SOWINSKI), 1891, A., 1380.
- Tetrahydro- β -naphthoic acid** (V. SOWINSKI), 1891, A., 1381; (V. BAAYER, SCHÖDER and BESEMFELDER), 1892, A., 194.
- ar*-**Tetrahydro- α -naphthol** (BAMBERGER and ALTHAUSSE), 1888, A., 960; (BAMBERGER and BORDT), 1890, A., 508.
- amido- (BAMBERGER and BAMMANN), 1889, A., 783.
- ac*-**Tetrahydro- β -naphthol** (BAMBERGER and LODTER), 1890, A., 506.
- ar*-**Tetrahydro- β -naphthol** (BAMBERGER and KITSCHOLT), 1890, A., 627, 633.
- Tetrahydro- α -naphthonitrile and - α -naphthothiamide** (BAMBERGER and BORDT), 1889, A., 716.
- Tetrahydro- α -naphthylamine** (BAMBERGER), 1888, A., 159; (BAMBERGER and ALTHAUSSE), 1888, A., 959; (BAMBERGER and BORDT), 1889, A., 715; (BAMBERGER and BAMMANN), 1889, A., 782, 784.
- Tetrahydro- β -naphthylamine and its derivatives** (BAMBERGER), 1888, A., 159; (BAMBERGER and MÜLLER), 1888, A., 599, 712.
- ac*- and *ar*- (BAMBERGER and KITSCHOLT), 1890, A., 631.
- Tetrahydronaphthylamine compounds**, relations between the physiological properties and constitution of (BAMBERGER and FILEHNE), 1889, A., 737.
- Tetrahydro- β -naphthylaminephenylcarbamide** (BAMBERGER and MÜLLER), 1888, A., 600.
- Tetrahydronaphthylanisole** (KOENIGS and MAI), 1892, A., 1445.
- ac*-**Tetrahydro- β -naphthylbenzylideneamine** (BAMBERGER and KITSCHOLT), 1890, A., 632.
- Tetrahydro- β -naphthylcarbonylamine tetrahydro- β -naphthylcarbonyl/*li*-thiocarbamate** (BAMBERGER and HELWIG), 1889, A., 1198.
- β -Tetrahydronaphthyl-diethylamines**, isomeric (BAMBERGER and WILLIAMSON), 1889, A., 1000.
- Tetrahydronaphthylene chlorhydrin and oxide** (BAMBERGER and LODTER), 1891, A., 1072.
- ar*-**Tetrahydro-1:4-naphthylene/*li*-chloro/*li*-imide** (BAMBERGER), 1890, A., 1300.
- Tetrahydro-1:2-naphthylenediamines**, *ar*- and *ar*- (BAMBERGER and SCHIEFFELIN), 1889, A., 893.
- ar*-**Tetrahydro-1:4-naphthylenediamine** (BAMBERGER and SCHIEFFELIN), 1889, A., 893.
- ac*-**Tetrahydro-1:4'-naphthylenediamine** (BAMBERGER and ABRAHAM; BAMBERGER and BAMMANN), 1889, A., 782.
- decomposition of, into its optically active components (BAMBERGER), 1890, A., 511.
- tetrahydroamidonaphthylthiocarbamate (BAMBERGER and BAMMANN), 1889, A., 783.
- a*-**Tetrahydronaphthylethylamine** (BAMBERGER and HELWIG), 1889, A., 891.
- hydrochloride, *p*-nitroso- (BAMBERGER and HELWIG), 1889, A., 892.
- β -Tetrahydronaphthylethylamines**, *ac*- and *ar*- (BAMBERGER and MÜLLER), 1889, A., 888, 890.
- Tetrahydronaphthylhydrazine**, amido- (BAMBERGER and BAMMANN), 1889, A., 784.
- Tetrahydro- α -naphthylhydrazine hydrochloride** (BAMBERGER and BORDT), 1889, A., 717.
- ac*-**Tetrahydro- β -naphthyllic acetate**, benzoate, sodium carbonate, chloride and phenylcarbamate (BAMBERGER and LODTER), 1890, A., 507.
- Tetrahydronaphthylphenol** (KOENIGS), 1891, A., 571; (KOENIGS and MAI), 1892, A., 1445.
- Tetrahydronaphthylthiocarbamide**, di-amido- (BAMBERGER and BAMMANN), 1889, A., 783.
- ac*-**Tetrahydro- β -naphthylxanthic acid**, sodium salt of (BAMBERGER and LODTER), 1890, A., 508.
- Tetrahydro-*p*-oxazine** (KNORR), 1889, A., 1218.
- Tetrahydropapaverine and its derivatives** (GOLDSCHMIEDT), 1887, A., 163.
- Tetrahydrophthalic acids**, Δ^1 , Δ^2 , Δ^3 , and Δ^4 , *cis*trans (V. BAAYER), 1890, A., 1279; 1892, A., 1216.

- Tetrahydrophthalic anhydrides**, Δ^1 , Δ^2 , and Δ^4 -*cistrans* (v. BAEYER), 1890, A., 1280.
- Tetrahydropicoline**, Δ^2 (LIPP), 1887, A., 277; 1892, A., 1243.
- Tetrahydropicolinic acid**, chloro- (OST), 1883, A., 794.
- Tetrahydropinene** (WALLACH and BERKENHEIM), 1892, A., 998.
- Tetrahydropyrazine** (GARZINO), 1892, A., 633.
- Tetrahydropyridine**. See Piperidine.
- Tetrahydropyridylacrylic acid**. See Anhydroecgonine.
- Tetrahydropyrroline**. See Pyrrolidine.
- Tetrahydroquinaldine**. See 2'-Methyl-tetrahydroquinoline.
- Tetrahydro-p-quinanisole**. See 3-Methoxytetrahydroquinoline.
- Tetrahydroquinazoline**, thio- (BUSCH), 1892, A., 1496.
- Tetrahydroquininic acid** (SRPEK), 1890, A., 177.
- Tetrahydroquinoline** (HOFFMANN and KOENIGS), 1883, A., 1143.
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- Tetrahydroquinoline, p-amido-** (ZIEGLER), 1888, A., 609.
dinitro- (SIMON-THOMAS), 1892, A., 726.
p-mono- and *di-nitroso-* (ZIEGLER), 1888, A., 610.
- Tetrahydroquinoline-2-carboxylic acid** (FISCHER and KÖRNER), 1884, A., 1197; (LELMANN and ALT), 1887, A., 503.
- Tetrahydroquinolinedimethylaniline-thiosulphonic indamine** (LELMANN and BOYE), 1890, A., 1006.
- Tetrahydroquinoline-4-sulphonic acid** (LELMANN and LANGE), 1888, A., 296.
- Tetrahydroquinolylcarbamide**, and its *dinitro-*derivative (SIMON-THOMAS), 1892, A., 725.
- Tetrahydrorotene** (BAMBERGER and LODTER), 1888, A., 292.
- Tetrahydroterephthalic acid**, Δ^1 - (v. BAEYER), 1887, A., 370.
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- Tetrahydroterephthalic acid hydr-iodide**, Δ^2 -*cistrans* (v. BAEYER and HERB), 1890, A., 1134.
- Tetrahydroterephthalic acids** (v. BAEYER), 1889, A., 1176, 1178.
- Tetrahydro- α -thiophencarboxylic acid** and its salts (ERNST), 1887, A., 471.
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- Tetrahydrothiophen-2:5-dicarboxylic acid** (ERNST), 1887, A., 237.
- Tetrahydroxyisocamylidenephosphonium iodide** (DE GIRARD), 1884, A., 1119.
- Tetrahydroxyanthraquinoline** (GRAEBE and PHILIPS), 1891, A., 1210.
- Tetrahydroxyanthraquinone**, boiling point of (SCHWEITZER), 1891, A., 1240.
(*rufiopine*) (NÜLTING), 1883, A., 65.
- 1:2:1':4'-Tetrahydroxyanthraquinone** (*quinizarin*; *alizarin-bordeaux*) and its derivatives (LIEBERMANN and WENSE), 1887, A., 593; (SCHMIDT; GATTERMANN), 1891, A., 935.
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- 1:3:2':4'-Tetrahydroxyanthraquinone** (*anthrachryson*) (NOAH), 1886, A., 556.
- Tetrahydroxyanthraquinones** (α - and β -*oxyanthraquinones*) (NOAH), 1887, A., 56.
- Tetrahydroxyaurindicarboxylic acid** (CARO), 1892, A., 1169.
- 1:2:3:4-Tetrahydroxybenzene**. See Apionol.

- 1:2:3:5-Tetrahydroxybenzene diethyl ether. See Diethoxydihydroxybenzene.
- 1:2:4:5-Tetrahydroxybenzene (LOEWY), 1886, A., 1028; (NIETZKI and SCHMIDT), 1888, A., 1182; (BÖNIGER), 1889, A., 878.
- amido-, hydrochloride (NIETZKI and SCHMIDT), 1889, A., 969.
- diamido-, and its derivatives (NIETZKI and BENCKISER), 1885, A., 780.
- nitramido- (NIETZKI), 1884, A., 58.
- Tetrahydroxybenzophenone and its derivatives (GRABBE and EICHENGRÜN), 1892, A., 1225.
- Tetrahydroxybutanetricarboxylic acid (DÜLL), 1891, A., 547.
- Tetrahydroxydiphenyl. See Diquinol and Diresorcinol.
- Tetrahydroxydiphenylmethane (BARTH and SCHREDER), 1883, A., 59.
- (methylenediresorcinol) (CARO), 1892, A., 856.
- Tetrahydroxydiphthalyl (GOLDSCHMIEDT and EGGER), 1891, A., 1372.
- Tetrahydroxyditolyl (BRUNNER), 1889, A., 997; (DENINGER), 1890, A., 39.
- Tetrahydroxyethylidenephosphonium compounds (MESSINGER and ENGELS), 1888, A., 442.
- iodide (DE GIRARD), 1884, A., 1119.
- Tetrahydroxyoctolactone (BULITSCH), 1888, A., 450.
- Tetrahydroxypropylenephosphonium compounds (MESSINGER and ENGELS), 1888, A., 442.
- Tetrahydroxyquinone, formula of (NIETZKI and KEHRMANN), 1888, A., 263.
- action of *o*-phenylenediamine on (KEHRMANN), 1890, A., 1265.
- salts of (NIETZKI and BENCKISER), 1885, A., 780.
- Tetrahydroxyquinoneanilide (NIETZKI and SCHMIDT), 1888, A., 944.
- Tetrahydroxystearic acid. See Saticvic acid.
- Tetrahydroxyterephthalic acid (LOEWY), 1886, A., 1028.
- Tetrahydroxytoluene, *p*-nitro- (KEHRMANN and BRASCH), 1889, A., 970.
- Tetrahydroxyvaleric acid (*arabonic acid*) (BAUER), 1885, A., 500; 1886, A., 869; (KILIANI), 1887, A., 230.
- phenylhydrazide of (FISCHER), 1890, A., 1398.
- (*ribonic acid*) (FISCHER and PILOTY), 1892, A., 438.
- Tetraketohexamethylene, *tribromo-* (LANDOLT), 1892, A., 836.
- tetrabromo-* (NEF), 1890, A., 1272.
- trichloro-*, hydrate (LANDOLT), 1892, A., 835.
- tetrachloro-* (NEF), 1890, A., 1271; (LANDOLT), 1892, A., 836.
- dichlorodibromo-* (NEF), 1890, A., 1271.
- Tetraketopiperazines, attempts to prepare (BISCHOFF and NASTVOGEL), 1890, A., 1164.
- Tetralkylammonium iodides, formation of (H. and A. MALBOT), 1892, A., 133.
- action of potassium on (THOMPSON and CUNDALL), 1888, T., 761; P., 79.
- Tetramethoxydiamidodiphenyl and its derivatives (BAESSLER), 1884, A., 1330; 1887, A., 364.
- Tetramethoxybenzene (WILL), 1888, A., 458.
- Tetramethoxybenzhydrotricarboxylic acid (*tetramethoxydicarboxydiphenylglycollic acid*) (GOLDSCHMIEDT and EGGER), 1891, A., 1372.
- Tetramethoxydihydrodiphthalyl (GOLDSCHMIEDT and EGGER), 1891, A., 1373.
- Tetramethoxy-diphthalyl and -diphthalylidicarboxylic acid (GOLDSCHMIEDT and EGGER), 1891, A., 1371.
- Tetramethoxyditolyl (BRUNNER), 1889, A., 997.
- Tetramethoxyindigodicarboxylic acid (LIEBERMANN), 1886, A., 468.
- Tetramethoxyquinhydrone, *tetrachloro-* (KEHRMANN), 1891, A., 905.
- Tetramethylaldine. See Tetramethylpyrazine.
- Tetramethylallylalkine. See Hydroxytetramethylpropylenediamine.
- Tetramethylisallylene (VAUBEL), 1891, A., 997.
- Tetramethyldiamidoarsenobenzene (MICHAELIS and RABINERSON), 1892, A., 1321.
- Tetramethyldiamidoazobenzene (*dimethylamidobenzeneazodimethylaniline*) (NÖLTING and KOHN), 1885, A., 386; (BARBIER and VIGNON), 1888, A., 54.
- Tetramethyldiamidobenzhydrol (*tetramethyldiamidodiphenylcarbinol*), condensation of, with xylydine, mesidine, ψ -cumidine, *isoduridine* and prehnidine (NÖLTING), 1892, A., 188.
- derivatives of (NATHANSON and MÜLLER), 1889, A., 1189.

- Tetramethyl λ amidobenzophenone** (ZIEGLER), 1887, A., 674.
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- Tetramethyl λ amidobenzophenone** (NATHANSON and MÜLLER), 1889, A., 1189.
- Tetramethyl λ amidochloroethoxyquinone** (KEHRMANN), 1891, A., 904.
- Tetramethyl λ amido λ chloronitrotriphenylmethane** (KOCK), 1887, A., 837.
- Tetramethyl λ amidodinaphthylphenylmethane** (*phenyltetramethyl λ amidodinaphthylmethane*) (FRIEDLÄNDER and WELMANS), 1889, A., 151.
- Tetramethyl λ amidodiphenyl** (*tetramethylbenzidine*) (MICHLER and PATTINSON), 1884, A., 747; (GIRAUD), 1890, A., 138; (LAUTH), 1891, A., 457.
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- Tetramethyl λ amidodiphenylamine**, oxidation of (BERNTHSEN), 1884, A., 597.
- Tetramethyl λ amidodiphenylcarbinol**.
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- Tetramethyl λ amidodiphenylethane** (HEUMANN and WIERNIK), 1887, A., 674; (TRÖGER), 1888, A., 287.
- Tetramethyl λ amidodiphenylheptane** (KRAFFT), 1887, A., 253.
- Tetramethyl λ amidodiphenylmethane** (WIERNIK), 1889, A., 130; (VAN ROMBURGH), 1889, A., 146.
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- Tetramethyl λ amidodiphenylmethoxymethylquinolylmethane** (NÖLTING), 1892, A., 190.
- Tetramethyl λ amidodiphenylmethoxytolylmethane** (NÖLTING), 1892, A., 190.
- Tetramethyl λ amidodiphenylphenylamidonaphthylcarbinol** (*Victoria blue*) (NATHANSON and MÜLLER), 1889, A., 1190.
- Tetramethyl λ amidodiphenylphenylmethylamidonaphthylcarbinol** and its derivatives (NATHANSON and MÜLLER), 1889, A., 1191.
- Tetramethyl λ amidodiphenylquinolylmethane** (NÖLTING), 1892, A., 190.
- Tetramethyl λ amidodiphenylthienylmethane** (LEVI), 1887, A., 481.
- Tetramethyl λ amidodiphenyltolylmethane**, *p*-nitro- (NÖLTING), 1891, A., 727.
- Tetramethyl λ amidodiphenyltolylmethanes** and their derivatives (NÖLTING), 1892, A., 187.
- Tetramethyl λ amidoditolylnitrophenylmethane** (KOCK), 1887, A., 837.
- Tetramethyl λ amidodiphenylmethane**, action of sulphur on (WALLACH), 1891, A., 189.
- Tetramethyl λ amidoquinone**, preparation of (KEHRMANN), 1890, A., 757.
- Tetramethyl λ amidothiobenzophenone** and its derivatives (BAITHER), 1887, A., 816; 1888, A., 289.
- Tetramethyl λ amidotoluene** (*tetramethyltolylguanidinium*) (NIEMENTOWSKI), 1887, A., 938.
- Tetramethyl λ amidotriphenylethane** (DOEBNER and PETSCHOW), 1888, A., 288.
- Tetramethyl λ amidotriphenylmethane**.
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- Tetramethyl λ amidotriphenylmethane**, derivatives of (NATHANSON and MÜLLER), 1889, A., 1189.
- Tetramethylammonium salts**, action of heat on (LAWSON and COLLIE), 1888, T., 624; P., 61.
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- Tetramethylanthracene** (FRIEDEL and CRAFTS), 1887, A., 1102.
- Tetramethylapionol** (CLAMICAN and SILBER), 1890, A., 36.
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- Tetramethylazyline** (NÖLTING and BAUMANN), 1885, A., 385; (NÖLTING and KOHN), 1885, A., 386.
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- Tetramethylbenzamide** (HARRIS), 1890, A., 158.
- Tetramethylbenzamidobenzophenone**, action of nitrous acid on (HERZBERG and POLONOWSKY), 1892, A., 185.
- Tetramethylbenzene** (v. HOFMANN), 1884, A., 1320.
amido- (*duridine*) [b.p. 253°] (v. HOFMANN), 1884, A., 1320.
- 1:2:3:4-Tetramethylbenzene**. See *Prehnitene*.
5-amido- (*prehnidine*) [b.p. 260°] (LIMPACH), 1888, A., 464.
- 1:2:3:5-Tetramethylbenzene**. See *isodurene*.
4-amido- (*isoduridine*) (NÖLTING and BAUMANN), 1885, A., 384, 893.
- 1:2:4:5-Tetramethylbenzene**. See *Durene*.
- Tetramethylbenzenecarboxylic acid**. See *Tetramethylbenzoic acid*.
- Tetramethylbenzenethio-carbamide and -carbimide** (v. HOFMANN), 1884, A., 1320.
- Tetramethylbenzidine**. See *Tetramethylamidodiphenyl*.
- 1:2:3:4-Tetramethylbenzoic acid** (GOTT-SCHALK), 1888, A., 261.
- 1:2:4:5-Tetramethylbenzoic acid** (*durancarcarboxylic acid*) (JACOBSEN), 1889, A., 877.
- Tetramethylbenzoic acids**, 1:2:3:4- and 1:2:3:5- (CLAUS and FÖCKING), 1888, A., 276.
- Tetramethylbenzophenone** (*benzoyl-isodurene*) (ESSNER and GOSSIN), 1885, A., 253.
- Tetramethylbenzoylbenzoic acid** (*o-duroylbenzoic acid*) (FRIEDEL and CRAFTS), 1889, A., 242.
- Tetramethylbrazilein** (SCHALL and DRALLE), 1888, A., 295; 1889, A., 55.
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- Tetramethylbutallylcarbinammonium iodide**. See *Trimethylhexenylammonium iodide*.
- Tetramethyldiethyl-p-phenylenediammonium diiodide** (LIPPMANN and FLEISSNER), 1884, A., 178.
- Tetramethyldihydroanthracene** and its derivatives (ANSCHÜTZ and ROMIG), 1885, A., 768.
- Tetramethyldihydropyridine** (CIAMICIAN and ANDERLINI), 1889, A., 58.
- Tetramethyldihydropyridine**, action of methylic iodide on (ANDERLINI), 1890, A., 67.
- Tetramethyldimethylenedisulphone** (AUTENRIETH), 1887, A., 463.
- Tetramethyldiphenylene** (*tetramethyldiamidodiphenyl*) (REULAND), 1890, A., 167.
- Tetramethyldipicolyl methiodide** (LADENBURG), 1889, A., 161.
- Tetramethyldiquinolyline**. See *Tetramethylquinolyquinoline*.
- Tetramethyldiquinoxaline** (NIETZKI and MÜLLER), 1889, A., 604.
- Tetramethylenaldehyde** (COLMAN and PERKIN), 1887, T., 238.
- Tetramethylene ethyl ketone** (PERKIN and SINCLAIR), 1892, T., 51.
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- Tetramethylene ethyl ketoxime** (PERKIN and SINCLAIR), 1892, T., 54.
- Tetramethylene glycol** (DEKKERS), 1891, A., 164.
- Tetramethylene methyl ketone** (COLMAN and PERKIN), 1887, T., 238; P., 12; (PERKIN and SINCLAIR), 1892, T., 47.
- Tetramethylene methyl ketoxime** (PERKIN and SINCLAIR), 1892, T., 49.
- Tetramethylene derivatives** (COLMAN and PERKIN), 1887, T., 228; P., 12; (PERKIN and SINCLAIR), 1891, P., 191; 1892, T., 36.
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- Tetramethylene-carbanilide and -carboxylamide** (FREUND and GUDEMAN), 1888, A., 1271.
- Tetramethylenecarboxylic acid** (*penta-noic acid*) and its salts (PERKIN), 1883, A., 1084; 1887, T., 8.
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- Tetramethylenecarboxylic anhydride** and nitrile (FREUND and GUDEMAN), 1888, A., 1271.
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- Tetramethylenediamine** (*putrescine*) and its derivatives (LADENBURG), 1886, A., 528; (V. UDRÁNSZKY and BAUMANN), 1889, A., 33, 1024.
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- Tetramethylene-1:1-dicarboxylic acid** and its salts (PERKIN), 1883, A., 1084; 1887, T., 4.
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- Tetramethylene-1:2-dicarboxylic acid** and anhydride (PERKIN), 1886, A., 934; 1887, T., 22.
- Tetramethylenedicarboxylic acids** (MARKOWNIKOFF), 1892, A., 1306.
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- Tetramethylenedinitramine** (DEKERS), 1891, A., 164.
- Tetramethylene-ethylcarbinol** and -ethylcarbinyl acetate (PERKIN and SINCLAIR), 1892, T., 54, 56.
- Tetramethylenemethylamine** (FREUND and GUDEMAN), 1888, A., 1271.
- Tetramethylenemethyl-carbamide** and -thiocarbamide (FREUND and GUDEMAN), 1888, A., 1271.
- Tetramethylenemethylcarbinol** (PERKIN and SINCLAIR), 1892, T., 50.
- Tetramethylenephénylcarbinol** and its polymeride (PERKIN and SINCLAIR), 1892, T., 62, 65.
- Tetramethylenepropyl bromide** and iodide (PERKIN and SINCLAIR), 1892, T., 57.
- Tetramethylene-1:1:2:2-tetracarboxylic acid** (PERKIN), 1886, A., 934; 1887, T., 17, 21.
- Tetramethylenic dibromide** (GUSTAVSON and DEMANOFF), 1889, A., 950.
- Tetramethylenylamine.** See Tetramethylenemethylamine.
- Tetramethylethylene** (*hexylene*), action of chlorine on (CHUPOLSKY), 1885, A., 645; (CHUPOLSKY and MARIUTZA), 1890, A., 727.
- Tetramethylethylene oxide** (*hexylene oxide*) (ELTEKOFF), 1883, A., 567.
- α -Tetramethylethylenedipyrrolone** (*tetramethyldipyrrolylethylene*) (PAAL and SCHNEIDER), 1887, A., 273.
- Tetramethylglutaramidine** platinochloride (PINNER), 1891, A., 62.
- Tetramethylglycoluril** (FRANCHIMONT and KLOBBIE), 1889, A., 126.
- Tetramethylindamine sulphide**, and thiosulphate (BERNTHSEN), 1889, A., 777.
- 2':3':3:4-Tetramethylindole** (DENNSTEDT), 1889, A., 1209.
- Tetramethylmalonamide** (*dimethylmalondimethylidiamide*) (FRANCHIMONT), 1886, A., 449.
- 1:2:3:4-Tetramethylmandelic acid** (CLAUS and FÖHLISCH), 1889, A., 50.
- Tetramethylmandelic acids**, 1:2:3:5- and 1:2:5:6- (CLAUS and FÖCKING), 1888, A., 275.
- 1:2:3:4-Tetramethylphenol.** See Prehnitol.
- 1:2:4:5-Tetramethylphenol.** See Durenol.
- 1:2:3:4-Tetramethylphenyl-5-acetic acid** (CLAUS and FÖHLISCH), 1889, A., 50.
- Tetramethylphenylenediamine** (*prehnitylenediamine*) (TÖHL), 1888, A., 585.
 nitroso-, hydrochloride, and its derivatives (WITT), 1885, A., 782.
- Tetramethyl-*o*-phenylenediamine** (*phenylene-tetramethylidiamine*) (FISCHER), 1892, A., 1474.
- Tetramethyl-*m*-phenylenediamine** (VAN ROMBURGH), 1888, A., 1185.
- Tetramethyl-*p*-phenylenediamine** thiosulphonic acid (BERNTHSEN), 1889, A., 777.
- Tetramethylphenylenesaffranine** (ANON.), 1884, A., 539.
- 1:2:3:4-Tetramethylphenylglyoxylic acid** (CLAUS and FÖHLISCH), 1889, A., 50.
- Tetramethylphenylglyoxylic acids**, 1:2:3:5-, and 1:2:4:5- (CLAUS and FÖCKING), 1888, A., 275.
- Tetramethylphenyllutidonecarboxylic acid** (CONRAD and LIMPACH), 1888, A., 851.
- Tetramethylphloroglucinol**, action of hydrochloric acid on (SPITZER), 1890, A., 1407.
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- Tetramethylphosphonium salts**, action of heat on (COLLIE), 1888, T., 636; P., 62.
- Tetramethylpiperidine** (*methylcopellidine*) and its derivatives (DURKOFF), 1885, A., 817.
 iodo- (FISCHER), 1884, A., 1290.
- Tetramethylpyrazine** (*methylkeltine*; *tetramethylalabine*) (OBONOMIDES), 1887, A., 29; (WOLFF), 1887, A., 465; (BRAUN and MEYER), 1888, A., 1093; (BRAUN), 1889, A., 613.

- Tetramethylpyrroyl-pyrroline** and **-pyrrolinecarboxylic acid** (MAGNANINI), 1889, A., 409.
- 1:3:4:2'-Tetramethylquinoline** [b.p. 297—300] (DOEBNER and v. MILLER), 1884, A., 1375.
- Tetramethylquinoline** [b.p. 284°] and its salts (LEW and RIEHM), 1886, A., 721.
- Tetramethylquinolylquinoline** and its derivatives (SCHESTOPAL), 1887, A., 1120.
- Tetramethylrosamine** (HEUMANN and REY), 1890, A., 157.
- Tetramethylstrychnine dihydroxide** (TAFEL), 1890, A., 1448.
- Tetramethylsuccinic acid** (*hexanedicarboxylic acid*) (AUWERS and MEYER), 1889, A., 1145; 1890, A., 132, 479; (AUWERS and GARDNER), 1891, A., 290.
- Tetramethylsuccinic anhydride** (AUWERS and MEYER), 1890, A., 479.
- Tetramethyl-succinimide** and **-succinophenylimide** (AUWERS and GARDNER), 1891, A., 290.
- Tetramethylsulphonamide** (BEHREND), 1884, A., 285.
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- Tetramethyltetrahydropyridine.** See Triacetone.
- Tetramethylthioaniline** and its salts (TURSINI), 1884, A., 1141.
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- Tetramethylthiophen** (ZELINSKY), 1888, A., 939.
- Tetramethyltricarballic acid** (BISCHOFF and v. KULBERG), 1890, A., 747.
- Tetramethyluric acid** (FISCHER), 1884, A., 1310.
- Tetramine-chromic** and **-cobalt salts.** See Chromammonium under Chromium and Cobaltamine under Cobalt.
- Tetramoncuprammonium bromide.** See Cuprammonium under Copper.
- β -Tetranaphthylcarbamide** (KYM), 1890, A., 994; (KÜHN and LANDAU), 1890, A., 1311.
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- β -Tetranaphthylthylamine, thio-** (KYM), 1889, A., 51.
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- Tetranilidonaphthalene** (*tetraphenyltetramidonaphthalene*) (FISCHER and HEPP), 1890, A., 911.
- Tetra-p-oxybenzoid** (SCHIFF), 1883, A., 335.
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- Tetraphenyl ethylenic hexacyanide** (KRAFFT and KOENIG), 1890, A., 1253.
- Tetraphenylaldine.** See Tetraphenylpyrazine.
- Tetraphenyltetramidomethylene-phenylenediamine** (MOORE), 1890, A., 246.
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- Tetraphenylcarbamide, thio-** (PASCHKOWETZKY), 1892, A., 165.
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- Tetraphenylcrotonolactone** (*tabular acrolepiden*) (JAPP and KLINGEMANN), 1889, P., 137.
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- Tetraphenyldiarsine** (MICHAELIS and SCHULTE), 1883, A., 187.
- Tetraphenyldihydropyridazine** (*tetraphenyldihydro-oiazine*) (SMITH), 1890, T., 647.
- Tetraphenyldiphosphine** (DÖRKEN), 1888, A., 833.
- Tetraphenyldiquinoxaline** (NIETZKI and MÜLLER), 1889, A., 605.
- Tetraphenylenefurfuran** (JAPP and KLINGEMANN), 1890, P., 32.
- Tetraphenylenepyrazine** (*tetraphenyleneciazine*) (JAPP and BURTON), 1887, T., 101.
- Tetraphenylethane** (ANSCHÜTZ), 1884, A., 326; (ANSCHÜTZ and KLEIN), 1884, A., 1034.
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- Tetraphenylethylene, synthesis of** (ZIEGLER), 1888, A., 596.
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- Tetraphenylethylenedithiosemithiocarbazine** (BURCHARD), 1890, A., 251.
- Tetraphenyl-1-ethylpyrroline** (FEHRLIN), 1889, A., 623.
- Tetraphenylylfurfuran** (*lepiden*), constitution of (MAGNANINI and ANGELI), 1889, A., 729.
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- Tetraphenylylglycocine** (JAPP and CLEMINSHAW), 1887, T., 553; P., 34.
- Tetraphenylic silicate** (MARTINI and WEBER), 1883, A., 983.

- Tetraphenyl-1-methylpyrroline** (FEHR-LIN), 1889, A., 623.
- Tetraphenyl-1-methylpyrrolone** (KLINGEMANN and LAYCOCK), 1890, P., 149; 1891, T., 149.
- Tetraphenylpyrazine** (*ditolancrazotide*; *tetraphenylaldine*) (JAPP and WILSON), 1886, T., 829; (JAPP and BURTON), 1887, T., 101; (BRAUN and MEYER), 1888, A., 700.
- conversion of, into diphenanthrylene-azotide (JAPP and BURTON), 1886, T., 843; P., 236.
- Tetraphenylpyrrolidone** (KLINGEMANN and LAYCOCK), 1891, T., 146.
- c-Tetraphenylpyrroline** (GARRET), 1889, A., 162.
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- 1:2:3:5-Tetraphenylpyrroline** (SMITH), 1890, T., 646.
- 3:3:4:5-Tetraphenylpyrrolone** and its reduction (KLINGEMANN and LAYCOCK), 1891, T., 144.
- Tetraphenylsilicon** and its *tetranitro-*derivative (POLIS), 1886, A., 618.
- Tetraphenylsuccinic acid** (BICKEL), 1889, A., 999.
- Tetraphenylsuccinonitrile** (AUWERS and MEYER), 1889, A., 883.
- Tetraphenyltetracarbazone** (CULMANN), 1890, A., 1268.
- Tetraphenylthiophen** (*thiolepiden*; *thionessal*) (ZIEGLER), 1890, A., 1246; (BAUMANN and KLETT), 1892, A., 185.
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- "Tetraphenylthiodithiosemicarbazide"** (RUHL), 1892, A., 1326.
- Tetraphenyluvnone** (PERKIN and SCHLOESSER), 1890, T., 956.
- Tetrapropylglutarimidine derivatives** (PINNER), 1891, A., 62.
- Tetrapropylmethylenediamine** (EHRENBERG), 1887, A., 1027.
- Tetrapropylsuccinimidine salts** (PINNER), 1891, A., 37.
- Tetraprotocatechutannic acid** (SCHIFF), 1883, A., 335.
- Tetrapyridinerhodium hydrochloride**, *dichloro-* (JØRGENSEN), 1889, A., 352.
- Tetrarabinantrigalactangeddic acid** (O'SULLIVAN), 1891, T., 1035.
- α -Tetraresorcinoldichroin ether**, bromo- (BRUNNER and CHUTE), 1888, A., 1182.
- Tetrathionates.** See under Sulphur.
- Tetra-*p*-tolylamidodimethylene-*o*-phenylenediamine** (MOORE), 1890, A., 247.
- p*-Tetratolylcarbamide** (HAMMERICH), 1892, A., 1083.
- Tetratolyethane**, Schwartz's (ELES and WITTICH), 1885, A., 518.
- p*-Tetratolylic silicate** (MARTINI and WEBER), 1883, A., 983.
- p*-Tetratolyloxamide** (HAMMERICH), 1892, A., 1084.
- Tetra-*m*- and -*p*-tolylsilicon** (POLIS), 1886, A., 619.
- Tetratonic elements**, combination of (COLSON), 1883, A., 15.
- Tetravinylpyridine** (KARAU), 1892, A., 1483.
- Tetrazodiphenol** (KUNZE), 1889, A., 262.
- Tetrazodiphenyl** (TÄUBER), 1891, A., 570.
- Tetrazodiphenyldisulphonic acid** (LIMPRICHT), 1891, A., 930.
- Tetrazole** (BLADIN), 1892, A., 1009.
- Tetrazoleazo-dimethylaniline** and - β -naphthylamine (THIELE), 1892, A., 1299.
- Tetrazole-series**, amidoximes and azoximes of (BLADIN), 1889, A., 977.
- Tetrazostilbene**, dyes from (BENDER and SCHULTZ), 1887, A., 268.
- Tetrazotic acid**, amido- (THIELE), 1892, A., 1299.
- Tetrazotic acids** (LOSSEN), 1891, A., 1038.
- Tetrethoxybenzene** (NIETZKI and RECHBERG), 1890, A., 968.
- Tetrethoxyquinhydrone**, *tetrachloro-* (KEHRMANN), 1891, A., 905.
- Tetrethylacetone** (*diamyl ketone*) (ULRICH), 1892, A., 1188.
- Tetrethylacetonedicarboxylic acid** (DÜSSCHMANN and V. PECHMANN), 1891, A., 674.
- Tetrethylallylalkine.** See Hydroxy-tetrethylpropylenediamine.
- Tetrethylamidooarsenobenzene** (MICHAELIS and RABINERSON), 1892, A., 1321.
- Tetrethylamidodiphenylphthalic acid** (SCHIFF and VANNI), 1890, A., 1298.
- Tetrethylamidodiphenylpropane** (DOEBNER and PETSCHOW), 1888, A., 287.
- Tetrethyl/*tr*/amidodiphenyltolylmethane** (NÖLTING), 1892, A., 189.
- Tetrethyl/*d*/amidophenylditolylmethane**, nitro- and amido-derivatives of (NÖLTING), 1891, A., 728.
- Tetrethyl/*d*/amidotriphenylmethane**, colour base from, and amido- and *o*-nitro-derivatives of (FISCHER and SCHMIDT), 1884, A., 1316.
- p*-nitro- (KAESWURM), 1886, A., 553.

- Tetrethylammonium** bromide, compound of, with thiocarbamide (REYNOLDS), 1891, T., 387.
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- 1:2:3:4-**Tetrethylbenzene** (JACOBSEN), 1889, A., 41.
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- Tetrethylbenzenes**, chlorinated (ISTRATI), 1886, A., 231, 343.
- Tetrethylbenzenesulphonic acids**, salts of (GALLE), 1883, A., 1091; (JACOBSEN), 1889, A., 40.
- Tetrethyldiorescinol** (PUKALL), 1887, A., 661.
- Tetrethyleuxanthic acid** (HERZIG), 1892, A., 1354.
- Tetrethylglutaramidine platinochloride** (PINNER), 1891, A., 62.
- Tetrethylindamine thiosulphonate** (BERNTHSEN), 1889, A., 778.
- Tetrethyl*para*leucaniline** (KAESWURM), 1886, A., 553.
- Tetrethylmethylenediamine** (EHRENBERG), 1887, A., 1027.
- Tetrethyl-*p*-phenylenediamine** (*phenylenetetrethyldiamine*) and its derivatives (LIPPMANN and FLEISSNER), 1883, A., 869, 1100.
- Tetrethylphloroglucinol** (HERZIG and ZEISEL), 1889, A., 247.
- Tetrethylphloroglucinols**, bromo- (HERZIG and ZEISEL), 1890, A., 243.
- Tetrethylphosphonium salts** (LETTS and COLLIE), 1886, P., 164; (MASSON and KIRKLAND), 1889, T., 126, 135; P., 19, 20.
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- Tetrethylrosamine** (HEUMANN and REY), 1890, A., 157.
- Tetrethylsaffranine** (NIETZKI), 1883, A., 732; (ANON.), 1884, A., 539.
- Tetrethylsuccinamide and -succinimidine hydrochlorides** (PINNER), 1891, A., 37.
- iso*-**Tetrethyl-*l*-thioxamide** (WALLACH and REINHARDT), 1891, A., 1008.
- Tetrethyltrimethylenetrисульфон** (CAMPS), 1892, A., 592.
- Tetric acid** (*acrylacetic acid*) (PAWLOFF), 1883, A., 730; 1884, A., 41; (FITTING), 1883, A., 1085; (MOSCHELES and CORNELIUS), 1888, A., 1272; (FREER), 1891, A., 1182; (WALDEN), 1891, A., 1187.
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- Tetronal** (*diethylsulphonedithylmethane*) (BAUMANN and KAST), 1889, A., 1233; (FROMM), 1890, A., 56.
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- Tetroxyditolyl**, anhydride of (NIETZKI), 1883, A., 467.
- o*-**Tetrylenedicarboxylic acetylanhydride** and **acetylchloranhydride** (MARKOWNIKOFF), 1892, A., 1307.
- Tetrylenedicarboxylic acids** (MARKOWNIKOFF), 1892, A., 1306.
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- "**Thallin**." See 3-Methoxytetrahydroquinoline.
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Thermochemical data for the camphene series (*c.* and *f.*) (BERTHELOT and MATIGNON), 1891, A., 1313.

for camphoric acids (*n.*) (BERTHELOT), 1885, A., 1178; (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1889, A., 6; (*c.* and *f.*) (STOHMANN and KLEBER), 1892, A., 1041.

for camphors (*c.*) (LUGININ), 1889, A., 328.

for cyano- and nitro-camphors (*f. c.* and *n.*) (BERTHELOT and PETIT), 1889, A., 1098.

for carbamide (*c.*) (STOHMANN), 1885, A., 857; (*c.* and *f.*) (BERTHELOT and PETIT), 1890, A., 206.

for the carbohydrates (*c.*) (STOHMANN), 1885, A., 857; (*c.* and *f.*) (BERTHELOT and VIEILLE), 1886, A., 757; (STOHMANN and LANGBEIN), 1892, A., 763.

for carbon (*c.*) (BERTHELOT and PETIT), 1889, A., 811.

for carbon with oxygen (*cb.*) (BOILLOT), 1884, A., 141.

for carbon compounds (*f.*) (THOMSEN), 1883, A., 543; (BRÜHL), 1887, A., 423; (*c.*) (MÜLLER-ERZBACH), 1883, A., 1044; (BERTHELOT and VIEILLE), 1885, A., 326; (LUGININ), 1885, A., 327; (DIKONOFF), 1886, A., 115; (THOMSEN), 1887, A., 761; (STOHMANN), 1887, A., 878, 1011; 1888, A., 1013; 1891, A., 251; (OSSIPPOFF), 1889, A., 5.

for carbon compounds and their relation to their constitution (*c.*) (DIEFFENBACH), 1890, A., 1206; (THOMSEN), 1891, A., 632.

for carbon tetrachloride and monoxide (*f.*) (THOMSEN), 1883, A., 544.

for carbon disulphide (*c.* and *f.*) (THOMSEN), 1884, A., 249; (BERTHELOT and MATIGNON), 1890, A., 1361.

for carbonic ethers (*c.*) (LUGININ), 1884, A., 547.

for carbonyl chloride (*f.*) (THOMSEN), 1884, A., 250.

for carbonyl sulphide (*c.* and *f.*) (THOMSEN), 1884, A., 249.

Thermochemical data for alkaline carbonates in very dilute solution (*f.*) (MULLER), 1889, A., 810.

for charcoal (*c.*) (BERTHELOT and VIEILLE), 1885, A., 326.

for chlorides and sulphates in aqueous solution, relation between (*f.*) (FAY), 1888, A., 401.

for hydrated metallic chlorides (*f.*) (SABATIER), 1889, A., 1043.

for perchloric acid and its salts (*d. f.* and *n.*) (BERTHELOT), 1883, A., 8.

for organic chlorine compounds (*c.* and *f.*) (BERTHELOT and MATIGNON), 1891, A., 1311.

for chromic acid and its salts (*f.*) (BERTHELOT), 1883, A., 642.

for chromous into chromic chloride (*t.*) (RECOURA), 1885, A., 1102.

for the citimamic acids (*c.*) (OSSIPPOFF), 1889, A., 460; (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096; (LIEBERMANN), 1892, A., 469.

for citraconic acid (*n.*) (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1888, A., 893.

for citric acid (*c.*) (STOHMANN), 1885, A., 857; (*n.*) (GAL and WERNER), 1887, A., 205; (MANSOL), 1892, A., 763.

for coal (*c.*) (SCHEURER-KESTNER), 1884, A., 122; 1885, A., 848, 1020; 1888, A., 774; 1891, A., 520; (SCHWACHHÜFER), 1885, A., 691; (ALEXÉEFF), 1886, A., 757.

for products of the distillation of coal (*c.*) (MAHLER), 1892, A., 395.

for coal-gas (*c.*) (WITZ), 1885, A., 472; (MAHLER), 1892, A., 396.

for colloids (*h.*) (WIEDEMANN and LUEDEKING), 1885, A., 1031.

for some soluble compounds and the law of thermal substitution constants (*f.*) (TOMMASI), 1885, A., 8.

for isocuminic acid (*c.*) (BERTHELOT and LUGININ), 1887, A., 762.

for diazo-derivatives (*f.*) (VIGNON), 1883, A., 774.

for isodibutylene (*c.*) (MALBOT), 1890, A., 320.

for electrolytes (*dis.*) (ARRHENIUS), 1889, A., 1044; 1892, A., 931.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for erythritol (*c.*) (STOHMANN), 1885, A., 857; (LUGININ), 1889, A., 668.

for erythroxides (*f.*) (DE FORCRAND), 1890, A., 935; 1891, A., 1312.

for ethane (*f.*) (THOMSEN), 1883, A., 545.

for ethereal salts of some fatty acids (*c.*) (LUGININ), 1885, A., 327; 1886, A., 192, 757.

for ethyl ether (*c.*) (STOHMANN), 1887, A., 425.

for ethylene oxide (*c.* and *f.*) (BERTHELOT), 1883, A., 275.

for ethylene oxide with hydrogen chloride (*cb.*) (BERTHELOT), 1883, A., 174.

for ethylenic perchloride (*f.*) (THOMSEN), 1883, A., 544.

for ethylic alcohol (*c.* and *f.*) (BERTHELOT and MATIGNON), 1892, A., 1139.

for ethylic acetocyanacetate, benzoylcyanacetate, and cyanomalonnate (*n.*) (HALLER and GUNTZ), 1888, A., 894.

for explosive mixtures, some relations between specific heats, dissociation, pressure and (*c.*) (BERTHELOT), 1883, A., 771.

for fats (*c.*) (STOHMANN), 1885, A., 857; (*f.*) (STOHMANN and LANGBEIN), 1891, A., 11.

for ferrous sulphide (*f.*) (MÜLLENHOFF), 1885, A., 950.

for fluorides (*f.*) (GUNTZ), 1884, A., 5, 545, 546; (TOMMASI; BERTHELOT), 1884, A., 545; (*n.*) (PETERSEN), 1890, A., 1.

for fluorine compounds (*f.* and *dis.*) (GUNTZ), 1884, A., 1245.

for fluorine with hydrogen (*cb.*) (BERTHELOT and MOISSAN), 1889, A., 1096.

for formylcarbamide (*c.* and *f.*) (MATIGNON), 1891, A., 1448.

for food constituents and their derivatives (*c.*) (STOHMANN), 1885, A., 857; (STOHMANN and LANGBEIN), 1892, A., 4.

for formic acid (*c.*) (JAHN), 1890, A., 99; (*c.* and *f.*) (BERTHELOT and MATIGNON), 1892, A., 1139.

for fumaric acid (*n.*) (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1888, A., 893; (*c.*

and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (STOHMANN), 1892, A., 1041.

Thermochemical data for certain gases (*cb.*) (RAABE), 1883, A., 274.

for glucose (*c.*) (BERTHELOT and RECOURA), 1887, A., 761.

for glutaric acid (*n.*) (MASSOL), 1892, A., 1141.

for glyceric acid (*n.*) (GAL and WERNER), 1887, A., 205.

for glycerol (*c.*) (STOHMANN), 1885, A., 857.

for potassium glyceroxide (*f.*) (DE FORCRAND), 1887, A., 320.

for glycocine (*c.*) (STOHMANN), 1885, A., 857.

for mono- and di-sodium glycol (*f.*) (DE FORCRAND), 1888, A., 1238; 1892, A., 421, 576.

for glycollic acid and its salts (*f.*) (DE FORCRAND), 1883, A., 644, 708, 774, 775; (TOMMASI), 1883, A., 708, 775.

for glycollic acid (*h.*) (DE FORCRAND), 1884, A., 547.

for glyoxal ammonium hydrogen sulphite (*f.*) (DE FORCRAND), 1885, A., 627.

for glyoxal barium and potassium hydrogen sulphites (*f.*) (DE FORCRAND), 1884, A., 959.

for glyoxylic acid and its salts (*n.* and *f.*) (DE FORCRAND), 1886, A., 297.

for graphitic and pyrographitic oxides (*c.*) (BERTHELOT and PETIT), 1890, A., 448.

for guanidine and nitroguanidine (*c.*) (MATIGNON), 1892, A., 1142.

for haloid salts (*dis.*, *f.*, *n.* and *t.*) (BERTHELOT), 1884, A., 656.

for hemipinimide (*c.* and *t.*) (LIEBERMANN), 1892, A., 459.

for hexadecylic alcohol and palmitate (*c.*) (STOHMANN), 1885, A., 857.

for hippuric acid (*c.*) (STOHMANN), 1885, A., 857.

for humic acid from sugar (*c.* and *n.*) (BERTHELOT and ANDRÉ), 1891, A., 1456.

for hydrazine (*n.*) (BERTHELOT and MATIGNON), 1892, A., 261; (BACH), 1892, A., 933; (*f.*) (THOMSEN), 1892, A., 1143.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for aromatic hydrocarbons (*c.*) (STOHMANN, RODATZ and HERZBERG), 1887, A., 427; (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1042.
 for solid hydrocarbons (*c.* and *f.*) (BERTHELOT and VIEILLE), 1886, A., 756.
 for hydrogen compounds (*f.*) (TOMMASI), 1885, A., 716.
 for hydrogen with fluorine (*cb.*) (BERTHELOT and MOISSAN), 1889, A., 1096.
 for hydrogen with oxygen (*cb.*) (BOILLOT), 1885, A., 8.
 for hydrogen chloride with ethylene oxide (*cb.*) (BERTHELOT), 1883, A., 174.
 for hydroxybenzenes (*c.*) (STOHMANN, RODATZ and HERZBERG), 1886, A., 655.
 for hydroxybenzoic acids (*f.*, *n.* and *t.*) (BERTHELOT and WERNER), 1885, A., 1103; (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
 of hydroxyl for hydrogen (*sb.*) (STOHMANN), 1886, A., 656.
 for hydroxylamine and its salts (*f.*) (BERTHELOT and ANDRÉ), 1890, A., 934.
 for hyponitrites (*f.*) (BERTHELOT and OGIER), 1883, A., 423; (BERTHELOT), 1889, A., 930.
 for inosite (*c.* and *f.*) (BERTHELOT and RECOURA), 1887, A., 1011; (BERTHELOT and MATIGNON), 1890, A., 1360; (STOHMANN and LANGBEIN), 1892, A., 764.
 for isomeric inosites (*t.*) (BERTHELOT), 1890, A., 1041.
 for iodine and bromine with magnesium (*cb.*) (BEKETOFF), 1892, A., 762.
 for iodine chlorides (*f.*) (THOMSEN), 1883, A., 543; (*t.*) (STORTENBEKER), 1892, A., 1387.
 for itaconic acid (*n.*) (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1888, A., 893.
 for ketones (*c.*) (LUGININ), 1884, A., 547.
 for lauric acid (*c.*) (STOHMANN and RODATZ), 1885, A., 1176.
 for double salts of lead and potassium iodides (*f.*) (BERTHELOT), 1883, A., 275.

Thermochemical data for lead oxychlorides and oxybromides (*f.*) (ANDRÉ), 1884, A., 384.
 for lithium bromide (*f.*) (BODISCO), 1889, A., 1098.
 for lithium iodide (*f.*) (BODISCO), 1889, A., 329.
 for lithium oxide (*f.*) (BEKETOFF), 1884, A., 1247.
 for magnesium compounds (*f.*) (BERTHELOT), 1887, A., 96.
 for magnesium with bromine and iodine (*cb.*) (BEKETOFF), 1892, A., 762.
 for malates (*f.* and *n.*) (MASSOL), 1892, A., 260.
 for maleic acid (*n.*) (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1888, A., 893; (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (STOHMANN and KLEBER), 1892, A., 1041.
 for maleic anhydride (*h.*) (OSSIPOFF), 1890, A., 680.
 for malic acid (*n.*) (GAL and WERNER), 1887, A., 96, 205; (*f.* and *n.*) (MASSOL), 1892, A., 260.
 for malonic acid (*n.*) (GAL and WERNER), 1887, A., 96; (MASSOL), 1888, A., 1240; 1889, A., 857.
 for malonates (*f.*) (MASSOL), 1889, A., 958; 1890, A., 1396, 1397.
 for sodium mannitol (*f.*) (DE FORCRAND), 1892, A., 800.
 for meconic acid (*n.*) (BERTHELOT), 1886, A., 8; (GAL and WERNER), 1887, A., 206.
 for mellitic acid (*n.*) (BERTHELOT), 1886, A., 8; (GAL and WERNER), 1887, A., 206; (*c.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
 for mercury compounds (*f.*) (THOMSEN), 1888, A., 1011; (NERNST), 1888, A., 1012.
 for mercury oxybromides and oxychlorides (*f.*) (ANDRÉ), 1884, A., 707, 884.
 for mesaconic acid (*n.*) (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1888, A., 893.
 for methane (*f.*) (THOMSEN), 1883, A., 544.
 for methylaniline (*f.*) (PETIT), 1888, A., 1239.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for di-, tri-, tetra-, penta- and hexa-methylene rings (c. and f.) (STOHMANN and KLEBER), 1892, A., 1041.

for methylic alcohol and solid methyl salts (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1890, A., 101.

for methylic alcohol with sodium (cb.) (DE FORCRAND), 1885, A., 1031.

for methylmalonic acid (n.) (MASSOL), 1892, A., 1140.

for methylsuccinic acid (c.) (LUGININ), 1889, A., 5; (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (n.) (MASSOL), 1892, A., 1140.

for rock-forming minerals (f.) (DIEULAFAIT), 1886, A., 35.

for permolybdic acid (f.) (PÉCHARD), 1892, A., 1383.

for myristic acid (c.) (STOHMANN and RODATZ), 1885, A., 1176.

for naphthalene (c. and f.) (BERTHELOT and RECOIRA; BERTHELOT and LUGININ), 1887, A., 762; (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1042.

for nicotine (n.) (COLSON), 1890, A., 101.

for nitriles (c. and f.) (BERTHELOT and PETIT), 1889, A., 812.

for nitrobenzenes (c. and f.) (PETIT), 1888, A., 1013; (BERTHELOT and MATIGNON), 1892, A., 4.

for nitrogen selenide (d.) (BERTHELOT and VIEILLE), 1883, A., 707.

for nitrogenous compounds derived from albuminoids (c. and f.) (BERTHELOT and ANDRÉ), 1890, A., 936; (c.) (BERTHELOT and ANDRÉ), 1890, A., 937.

for the nitro-group (sb.) (MATIGNON), 1892, A., 1141.

for the nononaphthenes (c.) (OSSIPOFF), 1889, A., 6, 460.

for olefines (c.) (GROSHANS), 1886, A., 498.

for the oxime of opianic anhydride (c. and t.) (LIEBERMANN), 1892, A., 459.

for oxalic acid (c.) (STOHMANN), 1885, A., 857; (JAHN), 1890, A., 100; (n.) (GAL and WERNER), 1887, A., 96.

Thermochemical data for oxalic acid, mercury salt of (f.) (BERTHELOT), 1884, A., 706.

for oxaluric acid (c. and f.) (MATIGNON), 1891, A., 1449.

for oxygen with carbon (cb.) (BOILLOT), 1884, A., 141.

for oxygen with hydrogen (cb.) (BOILLOT), 1885, A., 8.

for parabanic acid (c. and f.) (MATIGNON), 1891, A., 1449.

for paraffins (c.) (STOHMANN), 1885, A., 857; (c. and f.) (GROSHANS), 1886, A., 498.

for phenol (c.) (STOHMANN), 1885, A., 857; (BERTHELOT and LUGININ), 1887, A., 762.

for phenols (n.) (BERTHELOT and WERNER), 1885, A., 628; (BERTHELOT), 1886, A., 6, 7; (c. and f.) (STOHMANN, RODATZ and HERZBERG), 1887, A., 98; (STOHMANN and LANGBEIN), 1892, A., 763.

for phenyl ethers (c. and f.) (STOHMANN, RODATZ and HERZBERG), 1887, A., 428.

for phenylenediamine salts (f.) (VIGNON), 1888, A., 1012; (n.) (VIGNON), 1889, A., 1099.

for phosphates (f.) (BERTHELOT), 1887, A., 94; (JOLY), 1887, A., 202, 877.

for hypophosphoric acid (n.) (JOLY), 1886, A., 408.

for phosphorus chlorides (f.) (THOMSEN), 1883, A., 544; 1884, A., 250.

for phthalic acid (c.) (STOHMANN), 1885, A., 857.

for phthalates (f.) (COLSON), 1885, A., 1104.

for picroates (f., n. and h.) (TSCHELZOFF), 1885, A., 1103; 1886, A., 841; (f.) (TOMMASI), 1886, A., 408.

for *n*-pimelic acid (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (STOHMANN and KLEBER), 1892, A., 1041.

for piperidine (n.) (COLSON), 1890, A., 101.

for platonic bromide and its derivatives (f.) (PIGEON), 1892, A., 3.

for platonic chloride (f.) (PIGEON), 1890, A., 439.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for potassammonium (*f.*) (JOANNIS), 1890, A., 319.

- for potassium salts containing sulphur (*f.*) (BERTHELOT), 1883, A., 706.
- for potassium oxide (*f.*) (BEKETTOFF), 1884, A., 1247.
- for propionic acid (*c.*) (JAHN), 1890, A., 100; (*n.*) (MASSOL), 1891, A., 1313.
- for alkali propionates (*n.*) (MASSOL), 1891, A., 1313.
- for pyridine (*n.*) (COLSON), 1890, A., 101.
- for pyrocatechol (*c.*) (STOHMANN), 1885, A., 857.
- for disodium pyrocatechol (*n.*) (DE FORCRAND), 1892, A., 1185.
- for the pyrocitric acids (*c.*) (LUGININ), 1888, A., 893.
- for pyrogallol (*c.*) (STOHMANN), 1885, A., 857; (BERTHELOT and LUGININ), 1887, A., 762.
- for pyrogallols (*f.* and *n.*) (DE FORCRAND), 1892, A., 1313, 1446.
- for quercitol and quinic acid (*c.* and *f.*) (BERTHELOT and RECOURA), 1887, A., 1011.
- for quinol (*c.*) (BERTHELOT and LUGININ), 1887, A., 762.
- for sodium quinol (*n.*) (DE FORCRAND), 1892, A., 1185.
- for quinone (*c.*) (BERTHELOT and RECOURA; BERTHELOT and LUGININ), 1887, A., 762.
- for resorcinol (*c.*) (STOHMANN), 1885, A., 857.
- for sodium resorcinol (*n.*) (DE FORCRAND), 1892, A., 1185.
- for rubidium (*c.*) (BEKETTOFF), 1890, A., 679.
- for salicylic acid (*c.*) (STOHMANN), 1885, A., 857; (BERTHELOT and RECOURA), 1887, A., 762.
- for salts (*h.*) (PICKERING), 1884, A., 803; 1886, T., 417; P., 257; 1887, T., 75; (*f.*) (PICKERING), 1886, T., 287; P., 164; (POTILIZIN), 1886, A., 116; (VAN DEVENTER and REICHER), 1892, A., 262.
- for selenides (*f.*) (FABRE), 1886, A., 961, 962.
- for vitreous into metallic selenium (*t.*) (FABRE), 1886, A., 840.
- for selenium chloride (*f.*) (THOMSEN), 1883, A., 543.

Thermochemical data for alkaline silicofluorides (*f.*) (TRUCHOT), 1884, A., 884.

- for silicon tetrafluoride with ammonia (*cb.*) (TRUCHOT), 1885, A., 626.
- for silver chloride (*f.*) (RICHARDS), 1888, A., 400.
- for silver iodide and its compounds with cuprous and lead iodides (*t.*) (BELLATI and ROMANESE), 1883, A., 274.
- for sodammonium (*f.*) (JOANNIS), 1890, A., 319.
- for sodium with methylic alcohol (*cb.*) (DE FORCRAND), 1885, A., 1031.
- for sodium oxide (*f.*) (BEKETTOFF), 1884, A., 1247.
- for sorbic acid (*c.*) (OSSIPOFF), 1889, A., 460.
- for stannic acid and metastannic acid (*n.*) (VIGNON), 1889, A., 833.
- for stilbene (*c.*) (OSSIPOFF), 1889, A., 460.
- for succinic acid (*n.*) (GAL and WERNER), 1887, A., 96.
- for isosuccinic acid (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (*n.*) (MASSOL), 1892, A., 1140.
- for alkaline succinates and isosuccinates (*f.*) (TANATAR), 1890, A., 320.
- for sugars (*c.* and *f.*) (BERTHELOT and MATIGNON), 1890, A., 1360; (FOGH), 1892, A., 933.
- for sulphates (*f.* and *t.*) (PICKERING), 1884, T., 686; 1886, T., 1; (*f.*) (DE FORCRAND), 1884, A., 4; (ILLINGWORTH and HOWARD), 1885, A., 339.
- for sulphates and chlorides in aqueous solution, relation between (*f.*) (FAY) 1888, A., 401.
- for alkaline sulphites (*f.* and *n.*) (BERTHELOT), 1883, A., 704.
- for pyrosulphites (*f.*) (BERTHELOT), 1883, A., 705.
- for sulphur compounds (*c.* and *f.*) (BERTHELOT and MATIGNON), 1890, A., 1361.
- for sulphur chloride (*f.*) (THOMSEN), 1883, A., 543.
- for sulphur oxychloride (*f.*) (THOMSEN), 1884, A., 250.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for sulphuric acid (*n.*) (PICKERING), 1889, T., 323; P., 79.

for *per*sulphuric acid and its salts (*f.* and *n.*) (BERTHELOT), 1892, A., 931.

for pyrosulphuric chloride (*f.*) (KONOWALOFF), 1884, A., 250.

for sulphurous acid (*n.*) (BERTHELOT), 1883, A., 704.

for tartar emetic (*f.*) (GUNTZ), 1887, A., 544.

for *d.*- and *l.*-tartaric acids (*c.*) (STOHMANN), 1885, A., 857; (*n.*) (GAL and WERNER), 1887, A., 96; (JAHN), 1891, A., 969.

for tartronic acid (*n.*) (GAL and WERNER), 1887, A., 96.

for crystallised telluride (*f.*) (FABRE), 1887, A., 1010.

for the allotropic modification of tellurium (*t.*) (BERTHELOT and FABRE), 1887, A., 761.

for tellurium chloride (*f.*) (THOMSEN), 1883, A., 543.

for terebic acid (*c.*) (OSSIPOFF), 1889, A., 460.

for terephthalic acids and their salts (*c.* and *f.*) (STOHMANN and KLEBER), 1891, A., 376, 1147.

for terpine, terpin hydrate and terpin (*c.*) (LUGININ), 1889, A., 328.

for tetric acid (*n.*) (BERTHELOT), 1886, A., 8.

for toluidines (*f.*) (PETIT), 1888, A., 1239.

for triisobutylene (*c.*) (MALBOT), 1890, A., 320.

for tricarballylic acid (*c.*) (LUGININ), 1889, A., 668.

for potassium tricarballylates (*f.*) (MASSOL), 1892, A., 762.

for trimethylene (*c.*) (BRÜHL), 1891, A., 633.

for trimyristin (*c.*) (STOHMANN), 1885, A., 857.

for uric acid (*c.*) (STOHMANN), 1885, A., 857; (*f.*) (MATIGNON), 1890, A., 1040.

for alkaline urates (*f.*) (MATIGNON), 1890, A., 1040.

for cooked vegetables (*c.*) (WILLIAMS), 1892, T., 240.

for water-generator gas and carbonic anhydride-generator gas (*c.*) (NAUMANN), 1892, A., 673.

Thermochemical data for the water molecule (*dis.*) (WIEDEMANN), 1883, A., 547.

for wood (*c.*) (GOTTLIEB), 1884, A., 477.

for zinc carbonate (*f.*) (DIEULAFAIT), 1886, A., 132.

for zinc ethyl (*f.*) (GUNTZ), 1888, A., 15.

Heat of solution, theory of (DIETERICI), 1892, A., 676, 765.

law of (OSTWALD), 1888, A., 1020.

variation of solubility with variations in (LE CHATELIER), 1887, A., 548; (CHANCEL and PARMENTIER), 1887, A., 632.

of the alkaline earths and the alkalis (THOMSEN), 1884, A., 250.

of alkylamines (COLSON), 1891, A., 377.

of aluminium bromide in toluene (GUSTAVSON), 1885, A., 472.

of allantoin, alloxan and alloxantin (MATIGNON), 1891, A., 1448.

of amides (BERTHELOT and FOGH), 1890, A., 1360.

of aniline salts (BERTHELOT), 1890, A., 1361.

of aspartic acid (BERTHELOT), 1891, A., 967.

of acids of the benzene series (BERTHELOT), 1886, A., 8.

of certain compounds of the benzene series (BERTHELOT), 1885, A., 1177.

of bromine in different liquids (PICKERING), 1888, T., 865; P., 92.

of *di*bromomalonie acid and its salts (MASSOL), 1892, A., 1140.

of calcium chloride (PICKERING), 1888, P., 35; 1889, P., 86; 1891, P., 105.

of cyano- and nitro-camphors (BERTHELOT and PETIT), 1889, A., 1098.

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- di*Thioacetonediacetic acid** (*isopropylidenebisthioglycollic acid*) (BONGARTZ), 1886, A., 938.
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- 4-Thiobis-1-phenyl-3-methylpyrazolone** (V. BUCHKA and SPRAGUE), 1890, A., 796; (MICHAELIS), 1890, A., 1269; (SPRAGUE), 1891, T., 332, 335.
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- diThiodiacetylbenzaldehyde** (*diacetyl-dithiobenzorthaldehyde*) (BONGARTZ), 1886, A., 938.
- Thiodiacetylquinol** (*diacetylthioquinol*) (LEFFKART), 1890, A., 604.
- Thiodialuric acid** (TRZCINSKI), 1883, A., 914.
- γ -diThiodibutyramide** (GABRIEL), 1890, A., 1221.
- α -Thiodibutyric acid** (LOVÉN), 1886, A., 333.
- Thiodibutyric acids**, γ -mono- and γ -di- (GABRIEL), 1890, A., 1221.
- Thiodiisobutyric acid** (*thio-octoic acid*) (LOVÉN), 1886, A., 333.
- γ -Thiodibutyronitrile** (GABRIEL), 1890, A., 1221.
- diThiodicinnamic acid** (BONDZYŃSKI), 1887, A., 1109.
- Thiodiethylaniline** (HOLZMANN), 1888, A., 1080; MICHAELIS and GODCHAUX), 1890, A., 611.
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- Thiodimethylaniline** (HOLZMANN), 1887, A., 723; (MICHAELIS and GODCHAUX), 1890, A., 610.
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- α -*di*Thiodiphenoxypropionic acid** (BAUMANN), 1885, A., 514; (ESCALES and BAUMANN), 1886, A., 878.
- di*Thiodiphenoxy- γ -valeric acid** (ESCALES and BAUMANN), 1886, A., 879.
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- Thiodiphenylcarbamic acid**, derivatives of (FRAENKEL), 1885, A., 1130.
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- Thioethylquinol** (LEUCKART), 1890, A., 604.
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- Thio-octic acid** (*thiodiisobutyric acid*) (LOVÉN), 1886, A., 333.
- γ -Thio-octonitrile** (GABRIEL), 1890, A., 1221.
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- α -Thiophencarboxylic acid** and its derivatives (NAHNSEN), 1885, A., 51; (PETER), 1885, A., 765; (MEYER), 1885, A., 1051; 1886, A., 534. from mucic acid (PAAL and TAFEL), 1885, A., 764. heats of combustion and formation of (STOHMANN and KLEBER), 1891, A., 376. bromination of (BONZ), 1885, A., 1206; (MEYER), 1885, A., 1207. reduction of (ERNST), 1887, A., 471.
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estimation of, in titanium aluminium (HUNT, CLAPP, and HANDY), 1892, A., 1131.

separation of, from aluminium (GOOCH), 1885, A., 1265; 1886, A., 492.

separation of, from iron (GOOCH), 1885, A., 1265; 1886, A., 492; (CLAUSEN), 1888, A., 532.

separation of, from niobium and zirconium (DEMARÇAY), 1885, A., 639.

separation of, from tin (HILGER and HAAS), 1890, A., 666; (HAAS), 1890, A., 1029.

Titanium minerals, distribution of (THÜRACH), 1886, A., 126.

decomposition of (JONES), 1892, A., 664.

Tobacco, influence of the ash constituents on the combustibility of (MAYER), 1890, A., 1458.

slow combustion of (SCHLESING), 1888, A., 979; 1889, A., 639.

ratio of starch to sugar in (MÜLLER), 1886, A., 904.

wax from (KISSLING), 1884, A., 173.

climatic conditions for the development of nicotine in (MAYER), 1891, A., 858.

estimation of nicotine in (BIEL), 1888, A., 876; (KISSLING), 1890, A., 430.

composition of "smalls" of (BROWN), 1889, A., 543.

Japanese (TAKAYAMA), 1885, A., 582; (FESCA and IMAI), 1889, A., 69.

Virginian, composition of the midribs of leaves of (MEMMINGER), 1884, A., 99.

(*Toluene compounds Me-1.*)

Tobacco. See also Agricultural Chemistry.

Tobacco ash, composition of (ROMANIS), 1883, A., 372; (ANON.), 1885, A., 927; (JORDAN; JENKINS), 1886, A., 177; (VAN BEMMELEN), 1890, A., 1338.

Tobacco smoke, toxic action of, on bacteria (TASSINARI), 1888, A., 1327.

wax-like body from (KISSLING), 1884, A., 173.

Tolallyl sulphide (BAUMANN and KLETT), 1892, A., 185.

Tolane. See Diphenylacetylene.

Tolazinedicarboxylic acid, diamido- (KEHRMANN), 1889, A., 1154.

p-**Tolenylamidine** derivatives (GLOCK), 1888, A., 1290.

hydrochloride (CRAYEN), 1891, A., 560.

nitrite (LOSSEN), 1892, A., 53.

Tolenylamidinebenzenyl-*o*-carboxylic acid (BISTRZYCKI), 1890, A., 969.

Tolenylamidinedimethoxybenzenyl-carboxylic acid (BISTRZYCKI), 1891, A., 746.

p-**Tolenylamidine-*p*-tolenylazosulphimecarbohydrosulphide** (CRAYEN), 1891, A., 560.

p-**Tolenylamididosulphime-*p*-tolenylsulphime*di*thiocarbamate** (CRAYEN), 1891, A., 560.

o-**Tolenylamidoxime** and its derivatives (SCHUBART), 1890, A., 49.

p-**Tolenylamidoxime** and its derivatives (SCHUBART), 1886, A., 797; 1890, A., 47.

action of carbon disulphide on (CRAYEN), 1891, A., 559.

potassium compound of, action of carbon disulphide on (SCHUBART), 1890, A., 49.

3-nitro- (WEISE), 1890, A., 47.

p-**Tolenylamidoxime-ethylidene** (SCHUBART), 1890, A., 48.

Tolenylazo-. See Azo-.

p-**Tolenylethoxime salts** (SCHUBART), 1890, A., 47.

p-**Tolenyl-imidoacetate** and -**imidoethyl ether** (GLOCK), 1888, A., 1289.

o-**Tolenylimidoximeamido-*o*-tolylidene** (STIEGLITZ), 1890, A., 255.

p-**Tolenylimidoximecarbonyl** (SCHUBART), 1890, A., 48.

p-**Tolenyl-phenyluramidoxime**, -**thio-uramidoxime** and -**uramidoxime** (SCHUBART), 1890, A., 48.

p-**Tolhydryl-amine** *di-p-tol-carbonyl-amine* and -**carbamide** (GOLDSCHMIDT and STÖCKER), 1891, A., 1479.

(*Toluene compounds* $Me=1$.)

Tolidine (*diamidolitoyl*), polymethylene bases from (SCHIFF), 1892, A., 1223.

o-**Tolidine**, action of nitrous acid on (SCHULTZ), 1884, A., 903.
derivatives of (HOBBS), 1888, A., 708.

acetyl-derivatives of (GERBER), 1888, A., 484.

m-amido-, and *m*-nitro- (LOEWENHERZ), 1892, A., 852.

d-nitro- (GERBER), 1888, A., 484.

o-*m*-**Tolidine** (SCHULTZ), 1884, A., 903.

m-**Tolidine**, preparation of (v. BUCHKA and SCHACHTEBECK), 1889, A., 701.

p-**Tolidine**, action of nascent nitrous acid on (DENINGER), 1890, A., 38.

Tolidinedisulphonamide (HELLE), 1892, A., 1468.

o-**Tolidinedisulphonic acid** (GRIESS and DUISBERG), 1890, A., 60; (HELLE), 1892, A., 1466.

Tolidinesulphone (GRIESS and DUISBERG), 1890, A., 60.

Tolidinesulphonic acid (HELLE), 1892, A., 1467.

o-**Tolidinesulphonic acid** (GRIESS and DUISBERG), 1890, A., 60.

p-**Tolil** (*di-p-tolyl diketone*) (STIERLIN), 1889, A., 513.

Tolilbenzil, *o*- and *p*- (*benzil, tolylimide of; phenyl tolylimidobenzyl ketone*) (BANDROWSKI), 1889, A., 147.

o-**Tolilbenzoin** (*tolylimidodiphenylethyl alcohol*) (BANDROWSKI), 1889, A., 147.

p-**Tolilbenzoin** (VOIGT), 1886, A., 888.

Tolindole. See 3-Methylindole.

Tolocetylamine (*octyltolylamine; tolyloctane, amido-*), and its derivatives (BERAN), 1885, A., 524.

m-**Tolualdehyde**, *o*-nitro-, and dinitro- (BORNEMANN), 1884, A., 1163.

Tolualdehydes and their derivatives (BORNEMANN), 1884, A., 1161.

m-**Tolualdehydephenylhydrazine** (RUDOLPH), 1889, A., 251.

Tolualloxazine (KÜHLING), 1891, A., 1342.

α-**Toluamide** (PURGOTTI), 1891, A., 59.

o-**Toluamide**, reduction of (HUTCHINSON), 1890, T., 957.

3:5-*di*bromo- (CLAUS and BECK), 1892, A., 1207.

m-**Toluamide**, *ω*-chloro- (REINGLASS), 1891, A., 1344.

p-**Toluamide**, 3-amido- (NIEMENTOWSKI), 1888, A., 837.

2:6-*di*bromo- (CLAUS and SEIBERT), 1892, A., 176.

(*Toluene compounds* $Me=1$.)

p-**Toluamide**, 3:5-*di*bromo- (CLAUS and HERBANY), 1892, A., 175.

3:5-bromonitro- (CLAUS and HERBANY), 1892, A., 175.

2- and 3-chloro- (CLAUS and DAVIDSEN), 1889, A., 988.

ω-chloro-, and *ω*-cyano- (MELLINGHOFF), 1890, A., 239.

3-nitro- (NIEMENTOWSKI and ROZAN-SKI), 1888, A., 1088; (WEISE), 1890, A., 47.

p-**Toluanilide** (LEUCKART), 1890, A., 759.

Toluzaphenine (FISCHER and HEPP), 1891, A., 1046.

p-**Tolubenzylacetamide** (*tolylcarbinylacetamide; methylbenzylacetamide*) (KRÖBER), 1890, A., 969.

o-**Tolubenzylamine**. See Methylbenzylamine.

p-**Tolubenzylcarbamide** (*tolylcarbinylcarbamide; methylbenzylcarbamide*) (KRÖBER), 1890, A., 969.

o-**Toluisobutylthiocarbamide** (*diisobutyliditolythiocarbamide*) (EFFRONT), 1885, A., 153, 154.

Tolucarbostyryl. See Methylcarbo-
styryl.

Toluene (*methylbenzene*), coal-tar (MEYER), 1883, A., 1092.

formation of, from benzylic bromide (GLADSTONE and TRIBE), 1885, T., 453.

dispersive power of (BARBIER and ROUX), 1889, A., 805.

refractive power of, at different temperatures (PERKIN), 1892, T., 297.

action of the induction spark on (DESTREM), 1884, A., 1243.

action of heat on, and on a mixture of ethylene and (FERKO), 1887, A., 572.

action of amyl chloride and amylene on (ESSNER and GOSSIN), 1885, A., 517.

action of chloropicrin and chloroform on, in presence of aluminium chloride (ELBS and WITTICH), 1885, A., 517.

action of ethylic diazoacetate on (BUCHNER and CURTIUS), 1885, A., 1208.

action of lead oxide on (VINCENT), 1890, A., 962.

action of methylenic chloride on, in presence of aluminium chloride (FRIEDEL and CRAFTS), 1884, A., 1312; 1887, A., 1102.

bromination of (MILLER), 1892, T., 1023.

(*Toluene compounds Me=1.*)

Toluene (*methylbenzene*), chlorination of (SEELIG), 1887, A., 362.

purest, of commerce, sulphur compound in (MEYER and KREIS), 1884, A., 46.

halogen derivatives of (WILLGERODT and SALZMANN), 1889, A., 985.

physical constants of (SEUBERT), 1890, A., 2.

tetra- and *hexa-*hydrides from resin essences (RENARD), 1884, A., 844.

Toluene, amido-. See Toluidine.

diamido-. See Polylenediamine.

c-tetramido-, and its sulphate (NITZKI and ROSER), 1891, A., 192.

pentamido- (PALMER), 1889, A., 390.

o-bromo-, preparation and properties of (MILLER), 1892, T., 1027; P., 155.

action of chromyl dichloride on (STUART and ELLIOTT), 1888, T., 803.

bromination of (MILLER), 1892, T., 1031; P., 155.

oxidation of, with potassium ferri-cyanide (NOYES), 1886, A., 142.

m-bromo-, oxidation of (NOYES and WALKER), 1886, A., 788.

p-bromo-, preparation and properties of (MILLER), 1892, T., 1026; P., 155.

melting point of (NERNST), 1890, A., 3.

action of chlorine on (SRPEK), 1891, A., 44; (ERRERA), 1891, A., 1020.

bromination of (MILLER), 1892, T., 1032; P., 155.

3:6-bromonitro- (BENTLEY and WARREN), 1890, A., 485.

2:5:4:6-dibromodinitro- (CLAUS), 1888, A., 583.

3:5-dibromotrinitro- (PALMER), 1889, A., 390.

o-chloro- (SEELIG), 1887, A., 362.

action of chromyl dichloride on (STUART and ELLIOTT), 1888, T., 803.

sulphonation of (WYNNE), 1892, T., 1072; P., 140.

m-chloro-, sulphonation of (WYNNE), 1892, T., 1075; P., 140.

p-chloro-, melting point of (NERNST), 1890, A., 3.

sulphonation of (WYNNE), 1892, T., 1078; P., 140.

2:3- and 2:1-dichloro- (SEELIG), 1887, A., 363.

2:4-dichloro-, preparation of (ERDMANN), 1891, A., 1462.

(*Toluene compounds Me=1.*)

Toluene, 2:5-dichloro- (WYNNE), 1892, T., 1050; P., 139.

3:4-dichloro-, preparation of (ERDMANN), 1891, A., 1462.

sulphonation of (WYNNE), 1892, T., 1060; P., 139.

2:4-, 2:5-, 3:4- and 3:5-dichloro- (LELLMANN and KLOTZ), 1886, A., 452.

2:3:4- and 2:4:5-trichloro- (SEELIG), 1885, A., 769.

3:4:5-trichloro- (WYNNE), 1892, T., 1070; P., 139.

pentachloro- (SEELIG), 1885, A., 770.

o-chlorodibromo-, and *di-*, *tri-* and *tetra-chloro-p-bromo-* (WILLGERODT and SALZMANN), 1889, A., 986.

2:4-chloronitro- (LELLMANN), 1884, A., 1133.

2:5-chloronitro- (GOLDSCHMIDT and HÖNIG), 1887, A., 363; (HÖNIG), 1887, A., 1034.

2:6-chloronitro- (GREEN and LAWSON), 1891, T., 1017; P., 129.

3:5-chloronitro- (HÖNIG), 1887, A., 1034.

4:2-chloronitro- (GOLDSCHMIDT and HÖNIG), 1886, A., 1022.

4:3-chloronitro-, and its reduction products (GATTERMANN and KAISER), 1886, A., 49.

4:2:3-, 4:2:6- and 4:3:5-chlorodinitro- (HÖNIG), 1887, A., 1034.

2:4-dichloronitro- (SEELIG), 1887, A., 363.

2:3:4- and 2:4:5-trichloronitro- (SEELIG), 1885, A., 769.

cyano-. See Toluonitrile.

p-fluoro- (PATERNÒ and OLIVERI), 1884, A., 426; (WALLACH), 1887, A., 130.

o-iodo-, action of chromyl dichloride on (STUART and ELLIOTT), 1888, T., 803.

ω-nitro- (GABRIEL), 1885, A., 903; (GABRIEL and KOPPE), 1886, A., 693.

o-nitro- (STRENG), 1891, A., 1197.

action of chlorine on, in presence of sulphur (HAEUSSERMANN and BECK), 1892, A., 1437.

action of chromyl dichloride on (v. RICHTER), 1886, A., 694.

oxidation of, by potassium ferri-cyanide (NOYES), 1883, A., 577.

fractional reduction of (MINIATI, BOOTH and COHEN), 1888, A., 202.

(*Toluene compounds Me = 1.*)

- Toluene**, *m*-nitro-, preparation of (V. BUCHKA), 1889, A., 696.
 oxidation of (NOYES and MOSES), 1886, A., 143.
 reduction products of (V. BUCHKA and SCHACHTEBECK), 1889, A., 701.
p-nitro-, action of chromyl dichloride on (V. RICHTER), 1886, A., 694.
 oxidation of, by potassium ferricyanide (NOYES), 1883, A., 577.
 fractional reduction of (MINIATI, BOOTH and COHEN), 1888, A., 202.
 estimation of (REVERDIN and DE LA HARPE), 1889, A., 84.
 2:4-dinitro-, liquid bye-product in the preparation of (NÖLTING and WITT), 1885, A., 1095.
 2:5-dinitro- (NIETZKI and GUTERMANN), 1888, A., 471.
 2:6-dinitro- (CLAUS and BECKER), 1883, A., 1093; (STAEDEL), 1885, A., 142.
 3:5-dinitro-, constitution of (STAEDEL), 1883, A., 865.
 preparation of (STAEDEL), 1883, A., 864, 865.
 2:4:6-trinitro- (CLAUS and BECKER), 1883, A., 1093.
 α -, β - and γ -trinitro- (HEPP), 1883, A., 317.
 compounds of, with hydrocarbons (HEPP), 1883, A., 318.
 2:5-dinitroso- (MEHNE), 1888, A., 463; (NIETZKI and GUTERMANN), 1888, A., 471.
Toluene-aniline, α -trinitro- (HEPP), 1883, A., 317.
Tolueneazimidotoluene (ZINCKE and LAWSON), 1887, A., 731.
Tolueneazo-. See Azo-.
Toluenecinnamene (WISPER and ZUBER), 1883, A., 977; (KRAEMER, SPILKER and EBERHARDT), 1891, A., 207.
Toluenecyano-sulphochloride, and -sulphonic acid (ANON.), 1890, A., 382.
Toluenedicarboxylic acid. See Methylphthalic acid.
Toluene-3:5-disulphonic acid, 2-bromo- (KORNATZKI), 1884, A., 70; (LIMPRICHT), 1885, A., 1233; (HASSE), 1886, A., 151.
p-iodo- (LIMPRICHT), 1885, A., 1233; (RICHTER), 1886, A., 152.
Toluene-2:6-disulphonic acid (KORNATZKI), 1884, A., 70.
Toluenedisulphonic acids (KLASON), 1887, A., 264, 491.

(*Toluene compounds Me = 1.*)

- Toluenedisulphonic acids**, *p*-bromo-, and their derivatives (KORNATZKI), 1884, A., 70; (RICHTER), 1886, A., 152.
Toluenedisulphothiosulphonic anhydride. See Sulphotolytic disulphide.
p-**Toluenehydrazo-*p*-cresol** (GOLD-SCHMIDT and POLLAK), 1892, A., 974.
m-**Toluene- β -methylcoumarin** (V. PECHMANN and DUISBERG), 1884, A., 67.
Toluenenaphthalenes, *di*- and *tri*-nitro- (HEPP), 1883, A., 318.
Toluenesulphamine (PAYSAN), 1884, A., 454; (HEFFTER), 1884, A., 455.
Toluenesulphinic acids (PERL), 1885, A., 391.
Toluenesulphonamic acid (TRAUBE), 1890, A., 1137.
Toluene-*o*-sulphonamide, 4-chloro- (HEFFTER), 1884, A., 73.
Toluene-*m*-sulphonamide (NOYES and WALKER), 1886, A., 788.
Toluene-*p*-sulphonamide, oxidation of, with potassium ferricyanide (NOYES), 1886, A., 142.
Toluenesulphonic acid, 3-chloro-, and its amide and chloride (WYNNE), 1892, T., 1075.
 2:5-dichloro-, and its metallic salts and amide and chloride (WYNNE), 1892, T., 1051; P., 139.
 3:4-dichloro-, and its amide and chloride (WYNNE), 1892, T., 1061; P., 139.
 hydrolysis of (WYNNE), 1892, T., 1068; P., 139.
 3:4:5-trichloro-, and its metallic salts and chloride (WYNNE), 1892, T., 1069; P., 139.
o-iodo- and its salts (MABERY and PALMER), 1885, A., 538.
Toluene-*m*-sulphonic acid and its derivatives (VALLIN), 1887, A., 263.
Toluene-*p*-sulphonic acid and its derivatives (VALLIN), 1887, A., 263.
 action of bromine on (MILLER), 1886, P., 235.
 amine salts of (NORTON and OTTEN), 1888, A., 698.
 barium salt of (KELBE), 1883, A., 807.
 potassium salt of, bromination of (MILLER), 1892, T., 1027; P., 155.
 2-bromo- (MILLER), 1892, T., 1027; P., 155.
 2:3:5-tribromo- (CLAUS and IMMEL), 1891, A., 1490.
Toluene-2-sulphonic acid, 4-bromo-, and its salts (DE ROODE), 1891, A., 1227.

(*Toluene compounds Me=1.*)

Toluene-2-sulphonic acid, 4-chloro-, and its salts (DE ROODE), 1891, A., 1227; (WYNNE), 1892, T., 1078; P., 140.

4-iodo- (*o*-(β)-*acid*) and its salts (DE ROODE), 1891, A., 1227.

4-fluoro- and its amide (DE ROODE), 1891, A., 1226.

4-nitro- (HAUSSER), 1891, A., 73.

Toluene-3-sulphonic acid, 4-chloro-, and its amide (WYNNE), 1892, T., 1078; P., 140.

Toluene-4-sulphonic acid, 2-bromo- (MILLER), 1892, T., 1023; P., 155.

2-chloro-, and its amide (PAYSAN), 1884, A., 73.

Toluene-5-sulphonic acid, 2-bromo-, and its amide (MILLER), 1892, T., 1030; P., 155.

2-bromo-, and its chloride, bromide and amide (WYNNE), 1892, T., 1041; P., 155.

2:3-*di*bromo-, and its salts, and chloride, bromide and amide (WYNNE), 1892, T., 1038; P., 155.

2-chloro-, and its salts and chloride and amide (WYNNE), 1892, T., 1040, 1072; P., 139, 140.

2-nitro- (LIMPRICHT), 1885, A., 1234; (FOTH), 1886, A., 153.

Toluene- ω -sulphonic acid (*benzylsulphonic acid*), derivatives of (MOHR), 1884, A., 69.

4-bromo- (JACKSON and HARTSHORN), 1884, A., 665.

Toluenesulphonic acids, isomeric, formation of (GORDON), 1888, P., 78.

Toluene-*p*-sulphonic chloride, condensation of amido-acids with (HEDIN), 1891, A., 203.

p-**Toluenesulphonic iodide** (OTTO and TRÖGER), 1891, A., 718.

Toluenesulphothiosulphonic anhydride (OTTO and TRÖGER), 1891, A., 924.

Toluenethiosulphonic acid, reactions of (OTTO and RÖSSING), 1892, A., 478.

Toluene- ω -thiosulphonic acid (*benzylthiosulphonic acid*), sodium salt of (PURGOTTI), 1890, A., 1419.

Toluenethiosulphonic acids and their salts, action of ethylic chlorocarbonate on (OTTO and RÖSSING), 1891, A., 926.

Toluenethiosulphonic thioanhydride (OTTO and TRÖGER), 1891, A., 924.

Toluic acid, nitrosulpho- (LIMPRICHT), 1885, A., 1234.

α -**Toluic acid**. See Phenylacetic acid.

o-**Toluic acid** (*methylbenzoic acid*) (RACINE), 1887, A., 945.

(*Toluene compounds Me=1.*)

o-**Toluic acid** (*methylbenzoic acid*), derivatives of (JACOBSEN and WIERSS), 1883, A., 1121; (RACINE), 1887, A., 945.

5-amido-, phosphate of (HÖNIG), 1886, A., 242.

4-bromo- (JACOBSEN), 1885, A., 143; (CLAUS and PIESZCZEK), 1887, A., 240; (CLAUS and KUNATH), 1889, A., 987.

5-bromo- (NOURRISSON), 1887, A., 668; (CLAUS and KUNATH), 1889, A., 987.

nitration and bromination of (CLAUS and BECK), 1892, A., 1207.

4:5- and 3:5-*di*bromo-, and 5:3, 5:4- and 5:6-bromonitro- (CLAUS and BECK), 1892, A., 1207.

4-, 5- and 6-nitro- (JACOBSEN), 1884, A., 745.

m-**Toluic acid** (SPICA), 1883, A., 459; (MÜLLER), 1887, A., 724.

2-amido-, and its derivatives (*p*-*methylanthranilic acid*) (PANAOTOVIĆ), 1886, A., 361.

ω -amido- (REINGLASS), 1891, A., 1345.

4-chloro- (CLAUS), 1892, A., 1201.

ω -chloro- (REINGLASS), 1891, A., 1344.

4:6-*di*chloro- (CLAUS and BURSTERT), 1890, A., 1106.

nitro-, from nitro-*m*-isocymene (KELBE and WARTH), 1884, A., 46.

5-nitro- (TÖHL), 1885, A., 522.

p-**Toluic acid**, 3-amido- (*m*-*homoanthranilic acid*) (NIEMENTOWSKI), 1888, A., 837; 1889, A., 1065; (NIEMENTOWSKI and ROZAŃSKI), 1888, A., 1088; (NOYES), 1889, A., 394; (FILETTI and CROSA), 1889, A., 495.

2:3-, 2:6- and 3:6-*di*amido- (CLAUS and JOACHIM), 1892, A., 176.

2- and 3-bromo- (CLAUS and KUNATH), 1889, A., 987.

3-bromo- (FILETTI and CROSA), 1889, A., 496.

2:5-*di*bromo-, and its salts (SCHULTZ), 1885, A., 1054.

2:3-, 2:5- and 3:5-*di*bromo- (CLAUS and HERBANY), 1892, A., 175.

2:6-*di*bromo- (CLAUS and SEIBERT), 1892, A., 176.

3:6-*di*bromo- (FILETTI and CROSA), 1889, A., 496; (CLAUS and BEYSEN), 1892, A., 177.

3:6-bromamido- (FILETTI and CROSA), 1889, A., 495.

3:2-, 3:5- and 3:6-bromonitro- (CLAUS and HERBANY), 1892, A., 174.

3:6-bromonitro- (FILETTI and CROSA), 1887, A., 37; 1889, A., 495.

(*Toluene compounds* $Me=1$.)

- p*-**Toluic acid**, 6:2- and 6:3-bromonitro- (CLAUS and BEYSEN), 1892, A., 178.
 ω -chloro- (MELLINGHOFF), 1890, A., 239.
 2- and 3-chloro- (CLAUS and DAVIDSEN), 1889, A., 988.
 2:6-dichloro- (CLAUS and BEYSEN), 1892, A., 178.
 3:6-dichloro- (CLAUS and DAVIDSEN), 1892, A., 172.
 3:6-chloramido- (CLAUS and DAVIDSEN), 1892, A., 172.
 2:5-chloramido- (CLAUS and BÖCHER), 1892, A., 173.
 chlorobromo- and chlorobromonitro- (WILLGERODT and WOLFIEN), 1889, A., 966.
 3:6-chlorobromo- (CLAUS and DAVIDSEN), 1892, A., 173.
 2:3- and 2:5-chloronitro- (CLAUS and BÖCHER), 1892, A., 174.
 2:6-chloronitro- (CLAUS and BÖCHER), 1892, A., 174; (CLAUS and BEYSEN), 1892, A., 178.
 3:2-chloronitro- (CLAUS and DAVIDSEN), 1892, A., 173.
 3:6-chloronitro- (FILETI and CROSA), 1889, A., 496; (CLAUS and DAVIDSEN), 1889, A., 988; 1892, A., 172.
 3-chloro-2:6-dinitro- (CLAUS and DAVIDSEN), 1889, A., 988.
 ω -cyano- (MELLINGHOFF), 1890, A., 240.
 2-nitro- (NOYES), 1889, A., 395.
 3-nitro- (NIEMENTOWSKI and ROZAŃSKI), 1888, A., 1088; (NOYES), 1889, A., 394.
 2:3- and 3:6-dinitro- (ROZAŃSKI), 1890, A., 52.
 2:3-, 2:6- and 3:6-dinitro- (CLAUS and JOACHIM), 1892, A., 176.
 3:5-dinitro- (CLAUS and BEYSEN), 1892, A., 177.
 6:3-nitramido- (FILETI and CROSA), 1889, A., 495.
 2:6- and 3:6-nitramido- (CLAUS and BEYSEN), 1892, A., 177.
 3-sulpho-, and its derivatives (RANDALL), 1891, A., 1228.
 3-sulphamido- (WEBER), 1892, A., 1092.
Toluic acids, thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
p-**Toluic anhydride**, 3-sulpho- (RANDALL), 1891, A., 1229.
p-**Toluic sulphinide** ("methylsaccharin") (ANON.), 1890, A., 382; (RANDALL), 1891, A., 1228; (WEBER), 1892, A., 1092.

(*Toluene compounds* $Me=1$.)

- Toluide**, sulpho- (*di-p-tolylsulphone*), decomposition of (ORTO), 1886, A., 1031.
Toluidine, last runnings obtained in the purification of (HELL and ROCKENBACH), 1889, A., 600.
 naphthate and phenate (DYSON), 1883, T., 468.
o-**Toluidine**, action of benzylic chloride on (RABAUT), 1892, A., 48.
 influence of nuclear methyl on the properties of (ROSENSTIEHL), 1892, A., 1319.
 and furfuraldehyde, condensation of (DE CHALMOT), 1892, A., 1452.
 methylation and ethylation of (REINHARDT and STAEDEL), 1883, A., 578.
 nitration of (NÖLTING and COLLIN), 1884, A., 1012.
 sulphonation of (CLAUS and IMMEL), 1891, A., 1490.
 chloracetate (BISCHOFF), 1888, A., 727.
 hydrobromide and hydriodide (STAEDEL), 1883, A., 578.
 hydrochloride, spectrum of (HARTLEY), 1885, T., 739.
 ethylmalonate, action of phosphorus pentachloride on (RÜGHEIMER and SCHRAMM), 1888, A., 502.
 malate (BISCHOFF and NASTVOGEL), 1890, A., 1163.
 hydrogen sulphate (WELLINGTON and TOLLENS), 1886, A., 347.
 hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1000.
 detection of small quantities of *p*-toluidine in (HAEUSSERMANN), 1888, A., 203.
o-**Toluidine**, 5-bromo- (ALT), 1889, A., 1214.
 chloro-, conversion of, into chlorotoluene (WYNNE), 1892, T., 1047; P., 139.
 conversion of, into dichlorotoluene (WYNNE), 1892, T., 1049; P., 139.
 4-chloro- (GOLDSCHMIDT and HÖNIG), 1886, A., 1022.
 2:3:4- and 2:4:5-trichloro- (SEELIG), 1885, A., 769.
 cyano-, and its salts (BLADIN), 1884, A., 1142.
 3-nitro- (LELLMANN and WÜRTHER), 1885, A., 974.
 action of reducing agents on (GRAEFF), 1885, A., 1127.

(*Toluene compounds* $Mc=1$.)

- o-Toluidine**, 4-nitro- (NÖLTING and COLLIN), 1884, A., 1006, 1012; (LEVINSTEIN), 1885, A., 1127; (GREEN and LAWSON), 1891, T., 1015.
 reduction of (GREEN and LAWSON), 1891, T., 1016.
 displacement of the amido-group in, by chlorine (GREEN and LAWSON), 1891, T., 1017; P., 129.
 derivatives of (NÖLTING and COLLIN), 1884, A., 1006.
5-nitro- (LELLMANN and WÜRTHER), 1885, A., 974; (GREEN and LAWSON), 1891, T., 1013.
6-nitro- (BERNTSEN), 1883, A., 579; (GREEN and LAWSON), 1891, T., 1013.
 from liquid *d*-nitrotoluene (BERNTSEN), 1883, A., 579; (ULLMANN), 1884, A., 1316.
 reduction of (GREEN and LAWSON), 1891, T., 1016.
 displacement of the amido-group in, by chlorine (GREEN and LAWSON), 1891, T., 1017; P., 129.
3:5-dinitro- (STAEDEL), 1883, A., 865; (BARR), 1888, A., 823.
ω-nitroso- (MEYER), 1886, A., 63.
5-nitroso- (MEHNE), 1888, A., 463.
o-thionyl- (MICHAELIS), 1891, A., 717.
m-Toluidine, preparation of (EHRlich), 1883, A., 54.
 nitration of (NÖLTING and STOECKLIN), 1891, A., 692.
4-bromo- (CLAUS), 1892, A., 1201.
4-chloro- (GATTERMANN and KAISER), 1886, A., 49; (GOLDSCHMIDT and HÖNIG), 1886, A., 1022; (CLAUS), 1892, A., 1201.
5-chloro- (HÖNIG), 1887, A., 1034.
6-chloro-, and its derivatives (GOLDSCHMIDT and HÖNIG), 1887, A., 363.
 cyano-, and its salts (BLADIN), 1884, A., 1142.
2-nitro- (LIMPRICHT), 1885, A., 974.
 action of reducing agents on (GRAEFF), 1885, A., 1127.
4-nitro- (STAEDEL and KOLB), 1891, A., 187.
5-nitro- (STAEDEL), 1883, A., 865.
6-nitro- (FILETI and CROSA), 1889, A., 495.
4:6-dinitro- (HEPP), 1883, A., 317; (STAEDEL and KOLB), 1891, A., 187.
2:4:6-trinitro- (NÖLTING and V. SALIS), 1883, A., 59.
6-nitroso- (MEHNE), 1888, A., 463.

(*Toluene compounds* $Mc=1$.)

- p-Toluidine**, production of, from *p*-cresol (BRUCH), 1885, A., 147.
 spectrum of (HARTLEY), 1885, T., 741.
 action of benzylic chloride on (RABAUT), 1892, A., 313.
 action of bromine on, in presence of sulphuric acid (HAFNER), 1890, A., 137.
 diazotised, action of, on methyl-*p*-bromaniline (MELDOLA and STREATFIELD), 1889, T., 433.
 diazotised, action of, on methyl-*p*-chloraniline (MELDOLA and STREATFIELD), 1889, T., 436.
 action of sulphur on (GREEN), 1889, T., 228.
 nitration of (NÖLTING and COLLIN), 1884, A., 1012.
 oxidation of (KLINGER and PITTSCHKE), 1885, A., 151.
 from *p*-nitrobenzaldehyde, condensation products of (BISCHLER), 1888, A., 287.
 citric acid derivatives of (GILL), 1887, A., 40.
 azophenine of (NÖLTING and WITT), 1884, A., 743.
 chloracetate (BISCHOFF), 1888, A., 726.
allicinnamate (LIEBERMANN), 1891, A., 833.
 hydrate (LEWY), 1887, A., 134.
 hydrobromide and hydriodide (STAEDEL), 1883, A., 578.
 oxalate (BORNEMANN), 1890, A., 137.
 pierate (SMOLKA), 1886, A., 454.
 sulphate as a test for nitric acid (LONGI), 1884, A., 365.
 hydrogen sulphate (WELLINGTON and TOLLENS), 1886, A., 347.
 commercial, assay of (RAABE), 1892, A., 925.
 estimation of (SCHOEN), 1890, A., 839.
p-Toluidine, 3:5-dibromo- (CLAUS and HERBANY), 1892, A., 175.
 3:5:6-tribromo- (CLAUS and IMMEL), 1891, A., 1491.
 3:5-bromonitro- (HAND), 1886, A., 1018.
 3:6-bromonitro- (CLAUS and HERBANY), 1892, A., 174.
 chloro-, conversion of, into chlorotoluene (WYNNE), 1892, T., 1058; P., 139.
 2-chloro- (WITT), 1892, A., 445.
 3-chloro- (ERDMANN), 1891, A., 1466.
 2:5-chloronitro- (CLAUS and BOCHER), 1892, A., 173.

(*Toluene compounds Me = 1.*)

- p*-**Toluidine**, 3:5- and 3:6-chloronitro- (CLAUS and DAVIDSEN), 1892, A., 172.
 cyano-, and its salts (BLADIN), 1884, A., 1141.
 2-nitro- (BERNTHSEN), 1883, A., 579; (NÖLTING and COLLIN), 1884, A., 1012; (ULLMANN), 1884, A., 1316; (LEVINSTEIN), 1885, A., 1127.
 3-nitro- (NÖLTING and COLLIN), 1884, A., 1012.
 action of ethylenic bromide on (GATTERMANN and HAGER), 1884, A., 1142.
 action of reducing agents on (LIMPRICHT), 1885, A., 974; (GRAEFF), 1885, A., 1127.
 derivatives of (GATTERMANN), 1885, A., 975.
 oxalic acid derivatives of (HINSBERG), 1883, A., 323.
β-*d*-nitro- (HEFF), 1883, A., 317.
 3:5-*d*-nitro-, constitution of (STAEDEL), 1883, A., 865.
 thio-, and its derivatives (TRUHLAR), 1887, A., 472.
 thionyl- (MICHAELIS and HERZ), 1891, A., 310.
Toluidines (LEWY), 1886, A., 872.
 heat of formation of (PETIT), 1888, A., 1239.
 action of benzylic chloride on (RABAUT), 1892, A., 313.
 action of *di*brom-*α*-naphthol on (MELDOLA), 1884, T., 156.
 action of cyanogen on (BLADIN), 1884, A., 1141.
 isomeric, action of *p*-diazobenzene-sulphonic acid on (GRIESS), 1883, A., 182.
 action of nascent nitrous acid on (DENINGER), 1890, A., 38.
 action of sulphur on (GATTERMANN), 1889, A., 602.
 chlorination of, and bromination of, in presence of an excess of a mineral acid (HAFNER), 1890, A., 37.
 physiological action of (GIBBS and HARE), 1890, A., 1018.
 compounds of, with cupric chloride (POMEY), 1887, A., 472.
 compounds of metallic sulphites with (DENIGÈS), 1891, A., 1031.
 compounds of, with zinc chloride (LACHOWICZ and BANDROWSKI), 1888, A., 1281.
 quantitative analysis of (MINIATI, L. BOOTH and COHEN), 1888, A., 202.

(*Toluene compounds Me = 1.*)

- Toluidines**, separation of (WÜLFING), 1886, A., 1021; 1887, A., 576.
 separation of, from aniline (LEWY), 1884, A., 46.
o-**Toluidinealloxan** (PELLIZZARI), 1888, A., 682.
o-**Toluidine-3:5-disulphonic acid** (LIMPRICHT), 1884, A., 1232; (HASSE), 1886, A., 150.
p-**Toluidine-2:3- and -2:6-disulphonic acids** and their salts (RICHTER), 1886, A., 151.
o-**Toluidine-*p*-sulphinic acid** and its salts (PAYSAN), 1884, A., 454.
p-**Toluidine-*o*-sulphinic acid** and its salts (HEFFTER), 1884, A., 454.
o-**Toluidine-*p*-sulphonamide** (PAYSAN), 1884, A., 72.
p-**Toluidine-*o*-sulphonamide** (HEFFTER), 1884, A., 73.
Toluidinesulphonic acid, amido-. See Tolylenediaminesulphonic acid.
o-**Toluidinesulphonic acid**, action of nascent nitrous acid on (DENINGER), 1890, A., 39.
o-**Toluidine-4-sulphonic acid**, and 3:5-*di*bromo- (CLAUS and IMMEL), 1891, A., 1490.
o-**Toluidine-5-sulphonic acid** (HASSE), 1886, A., 150; (FOTH), 1886, A., 153; (JANOVSKY), 1888, A., 956; (CLAUS and IMMEL), 1891, A., 1490; (WYNNE), 1892, T., 1037; P., 155.
 salts of (WYNNE), 1892, T., 1037; P., 155.
 3-bromo- (CLAUS and IMMEL), 1891, A., 1490; (WYNNE), 1892, T., 1037; P., 155.
 4-iodo-, and its barium salt (LIMPRICHT), 1885, A., 1234; (FOTH), 1886, A., 153.
 3-nitro- (NIETZKI and POLLINI), 1890, A., 502.
m-**Toluidine-6-sulphonic acid** (CLAUS and IMMEL), 1891, A., 1490.
p-**Toluidine-2-sulphonic acid** (LIMPRICHT), 1885, A., 1233; (JANOVSKY), 1888, A., 956.
 3-nitro- (NIETZKI and POLLINI), 1890, A., 502.
p-**Toluidine-2- and -3-sulphonic acids**, separation of (SCHNEIDER), 1887, A., 146.
p-**Toluidine-3-sulphonic acid** (LIMPRICHT), 1885, A., 1233; (JANOVSKY), 1888, A., 956.
p-**Toluidine-5-sulphonic acid**, 2-nitro-, and its salts (LIMPRICHT), 1885, A., 1233; (FOTH), 1886, A., 152.

(*Toluene compounds* $Mc = 1$.)

p-Toluidine-5-sulphonic acid, 3-nitro- (NIETZKI and POLLINI), 1890, A., 502.

o-Toluidine-*p*-thiosulphonic acid (PAYSAN), 1884, A., 453.

p-Toluidine-*o*-thiosulphonic acid (HEFFTER), 1884, A., 451.

Toluido-. See Tolyamido-.

Toluidylmelamine (FRIES), 1886, T., 742.

Toluisatin (*ditolylloxindole*) and its derivatives (V. BAEYER and LAZARUS), 1886, A., 154.

Tolunaphthazines, isomeric, constitution of (WITT), 1887, A., 591.

Tolunitranilic acid (4-nitro-3:6-dihydroxytoluquinone) (KEHRMANN), 1888, A., 940; (KEHRMANN and BRASCH), 1889, A., 969.

p-Toluoïn (STIERLIN), 1889, A., 513.

o-Toluoïntrile from formo-*o*-toluidide (GASIOROWSKI and MERZ), 1884, A., 734.

heats of combustion and formation of (BERTHELOT and PETIT), 1889, A., 812.

ω -bromo- (DRORY), 1891, A., 1461.

5-bromo- (NOURRISSON), 1887, A., 668; (CLAUS and KUNATH), 1889, A., 987.

3:5-dibromo- (CLAUS and BECK), 1892, A., 1207.

ω -chloro- (GABRIEL and OTTO), 1887, A., 1035; (DRORY), 1891, A., 1460.

di- ω -chloro- (GABRIEL and WEISE), 1888, A., 261.

p-Toluoïntrile from formo-*p*-toluidide (GASIOROWSKI and MERZ), 1884, A., 734.

3-amido- (NIEMENTOWSKI), 1888, A., 837; (GLOCK), 1888, A., 1291.

2-bromo- (CLAUS and KUNATH), 1889, A., 987.

2:6-dibromo- (CLAUS and SEIBERT), 1892, A., 176.

3:5-dibromo- (CLAUS and HERBANY), 1892, A., 175.

3:5- and 3:6-bromonitro- (CLAUS and HERBANY), 1892, A., 175.

2- and 3-chloro- (CLAUS and DAVIDSEN), 1889, A., 988.

di- ω -chloro- (GABRIEL and WEISE), 1888, A., 261; (REINGLASS), 1891, A., 1344.

2:5-chloronitro- (CLAUS and BÜCHER), 1892, A., 173.

3:6-chloronitro- (CLAUS and DAVIDSEN), 1892, A., 172.

3-nitro- (LEUCKART), 1886, A., 351; (NIEMENTOWSKI), 1888, A., 837; (WEISE), 1890, A., 47.

(*Toluene compounds* $Mc = 1$.)

p-Toluoïntrile, 3:5-dinitro- (CLAUS and BEYSEN), 1892, A., 177.

Toluoïlazimide (NIEMENTOWSKI), 1888, A., 837.

p-Toluoïl-*o*-benzoic acid (FRIEDEL and CRAFTS), 1889, A., 242.

dichloro- (LE ROYER), 1887, A., 832.

o-Toluoïlcyanocamphor (HALLER), 1891, A., 1499.

p-Toluoïl-ethylamide and -methylamide (GATTERMANN and SCHMIDT), 1887, A., 358.

p-Toluoïl- β -propionic acid (CLAUS and SCHLARB), 1887, A., 827; (BURCKER), 1888, A., 951.

o-Toluoïl-*o*-tolenylamidoxime (STIEGLITZ), 1890, A., 255.

p-Toluoïl-*p*-toluidide (LEUCKART), 1890, A., 759.

o-Toluoïlylide (SMITH), 1892, A., 491.

Toluphenanthrazine, bromo- (HARTMANN), 1890, A., 976.

α -Toluphosphinic acid and its derivatives (WELLER), 1887, A., 825.

p-Toluphosphonic acid (WELLER), 1888, A., 836.

Toluphosphonic acids, α - and β -, derivatives of (WELLER), 1888, A., 835.

Toluoïnaldine. See Dimethylquinoline.

2:5-Toluoïnol (*hydrotoluoïnol*) (SCHNITER), 1887, A., 1036.

compounds of, with amines (HEBE BRAND), 1883, A., 60.

and methyl ethers of, and their condensation products (NIETZKI), 1888, A., 467.

4:6-diamido- (KEHRMANN and BRASCH), 1889, A., 970.

4-bromo- (SCHNITER), 1887, A., 1036.

tri-bromo- (CANZONERI and SPICA), 1883, A., 331.

β -chloro- (SCHNITER), 1887, A., 1036.

tri-chloro- (CLAUS and RIEMANN), 1883, A., 1112.

α - and β -chlorobromo- (SCHNITER), 1887, A., 1036.

3-iodo- (KEHRMANN), 1889, A., 993.

dinitro- (WENDER), 1890, A., 752.

4:6-dinitro- (KEHRMANN and BRASCH), 1889, A., 969.

nitramido- (KEHRMANN and BRASCH), 1889, A., 970.

Toluoïnoline. See Methylquinoline.

2:5-Toluoïnolone (SCHNITER), 1887, A., 1036.

compound of, with *o*-nitroiline (HEBE BRAND), 1883, A., 61.

3-bromo- (CLAUS and JACKSON), 1889, A., 128.

4-bromo- (SCHNITER), 1887, A., 1036.

(*Toluene compounds* $Me \equiv 1.$)

2:5-Toluquinone, *di-* and *tri-*bromo- (CANZONERI and SPICA), 1883, A., 330.

tribromo-, action of potassium hydroxide on (SPICA and MAGNANIMI), 1884, A., 175.

α -chloro- (CLAUS and SCHWEITZER), 1886, A., 614.

β -chloro- (SCHNITER), 1887, A., 1036.

3:4:6-*trichloro-* (CLAUS and RIEMANN), 1883, A., 1112.

α - and β -chlorobromo- (SCHNITER), 1887, A., 1036.

3-iodo-, and 4:6-*di*iodo- (KEHRMANN), 1889, A., 993.

Toluquinonechlorimide [m.p. 88°] and its derivatives (HIRSCH), 1885, A., 892.

[m.p. 75°] (STAEDEL and KOLB), 1891, A., 187.

Toluquinoneoxime. See Nitroso-*o*-cresol.

Toluquinone-2:5-*dioxime* (MEHNE), 1888, A., 463; (NIETZKI and GUITEMANN), 1888, A., 471.

Toluquinone*tetroxime* and its anhydride (GOLDSCHMIDT and STRAUSS), 1887, A., 809.

Toluquinoxaline. See Methylquinoxaline.

Toluric acids, *o*-, *m*- and *p*- (GLE-DITSCH and MOELLER), 1889, A., 708.

Toluthiamides, *o*- and *p*- (GABRIEL and HEYMANN), 1891, A., 701.

Tolylene. See Stilbene.

p-Tolyl benzyl ketone (STRASSMANN), 1889, A., 883.

oxidation of (BUCHER), 1890, A., 260.

bromo-derivatives of (BUCHER), 1890, A., 260.

p-Tolyl benzyl oxide (STAEDEL), 1883, A., 585.

nitro-derivatives (FRISCHE), 1884, A., 1337.

p-Tolyl *di*bromomethyl ketone (CLAUS), 1890, A., 769.

Tolyl ether, preparation of, from *p*-cresol (BUCH), 1885, A., 147.

Tolyl ethers, heat equivalent of (STOHMANN, RODATZ and HERZBERG), 1887, A., 428.

Tolyl ethyl ether. See Ethoxytoluene.

p-Tolyl ethyl ketone, and its nitro-derivatives (ERRERA), 1891, A., 1052.

p-Tolyl glycidyl ether (LINDEMANN), 1891, A., 1199.

p-Tolyl heptadecyl ketone (KRAFFT), 1888, A., 1087.

(*Tolyl compounds* $Me \equiv 1.$)

Tolyl methyl ether. See Methoxytoluene.

Tolyl methyl and ethyl ethylene *di*-oxides (SCHREIBER), 1891, A., 553.

o-Tolyl methyl ketone, 5-bromo- and 5-chloro- (CLAUS), 1891, A., 911.

m-Tolyl methyl ketone (ESSNER and GOSSIN), 1885, A., 252; (V. BUCHKA and IRISH), 1887, A., 826.

6-amido- (KLINGEL), 1884, A., 1343; 1886, A., 60.

4-bromo- (SCHÖPF), 1892, A., 338; (CLAUS), 1892, A., 1200.

6-bromo- (CLAUS), 1891, A., 911.

4-chloro- (CLAUS), 1892, A., 1201.

6-chloro- (CLAUS), 1891, A., 911.

p-Tolyl methyl ketone (CLAUS and RIEDEL), 1886, A., 462; (CLAUS), 1890, A., 769.

oxidation of (CLAUS and NEUKRANZ), 1891, A., 1264.

derivatives of (ERRERA), 1891, A., 1021.

m-Tolyl methyl ketoxime, 4-bromo- and 4-chloro- (CLAUS), 1892, A., 1201.

p-Tolyl methyl ketoxime (CLAUS), 1890, A., 769.

p-Tolyl methyl pinacone (*ditolylbutylene glycol*) (CLAUS), 1890, A., 769.

p-Tolyl nitrosomethyl ketone (MÜLLER and V. PECHMANN), 1890, A., 52.

o-Tolyl oxide (GLADSTONE and TRIBE), 1886, T., 28.

p-Tolyl pentadecyl ketone (KRAFFT), 1888, A., 1087.

p-Tolyl *disulphoxide* (OTTO and RÖSSING), 1885, A., 1232.

o-Tolyl xylil ketone (SMITH), 1892, A., 491.

o-Tolylacetamide, *trichloro-* (CLOËZ), 1887, A., 1098.

m-Tolylacetic acid (*m-methylphenylacetic acid*), *dinitro-* (SEŃKOWSKI), 1889, A., 255.

p-Tolylacetic acid (RADZISZEWSKI and WISPEK), 1885, A., 889; (CLAUS and KROSEBERG), 1887, A., 949; (STRASSMANN), 1889, A., 883.

preparation of (CLAUS and WEHR), 1891, A., 1365.

2-*mononitro-*, and 2:6-*dinitro-* (CLAUS and WEHR), 1891, A., 1365.

Tolylacetic acids (RADZISZEWSKI and WISPEK), 1885, A., 889.

m-Tolylacetylene (*methylcinnamene*; *methylstyrene*), and its bromo-derivative (MÜLLER), 1887, A., 725.

(Tolyl compounds $Me=1$.)*p*-Tolylacetylene dibromide (SCHRAMM), 1891, A., 898.*o*-Tolylacrylic acid (methylcinnamic acid) (KRÖBER), 1890, A., 969.*m*-amido- (V. MILLER and ROHDE), 1890, A., 1140.*m*-Tolylacrylic acid (BORNEMANN), 1884, A., 1163; 1887, A., 829; (MÜLLER), 1887, A., 724.

derivatives of (MÜLLER), 1887, A., 724.

salts of (BORNEMANN), 1884, A., 1163.

p-Tolylacrylic acid (KRÖBER), 1890, A., 969; (V. MILLER and ROHDE), 1890, A., 1140.

Tolylalanine. See Tolylamidopropionic acid.

Tolylallylsemithiocarbazides, *o*- and *p*- (AVENARIUS), 1891, A., 550.*p*-Tolylallylsulphone (OTTO), 1891, A., 1067.

Tolylallylthiocarbamide (DIXON), 1889, T., 622; (PRAGER), 1890, A., 160.

m-Tolylamidoacetic acid ($C_6H_4CH(NH_2)COOH$) (BORNEMANN), 1884, A., 1163.*o*-Tolylamidoacetic acid (tolylglycine; tolylglycin) and its derivatives (EHRlich), 1883, A., 591; (BISCHOFF and HAUSDÖRFER), 1890, A., 1285; 1892, A., 1333.

calcium salt of (MAUTHNER and SUIDA), 1891, A., 39.

m-Tolylamidoacetic acid, and its derivatives (EHRlich), 1883, A., 54.*p*-Tolylamidoacetic acid, and its derivatives (BISCHOFF and HAUSDÖRFER), 1890, A., 1284; 1892, A., 1335.

fusion of, with alkalis (HEUMANN), 1891, A., 928.

o-nitro- (PLOCHL), 1886, A., 351.

salts of (LEUCKART and HERMANN), 1887, A., 383.

p-Tolylamidoacetimide (BISCHOFF and HAUSDÖRFER), 1890, A., 1284.*o*-Tolylamidoacetotoluidide (EHRlich), 1883, A., 593.*o*-Tolylamidoaceto-*o*-tolylamidoacetic acid (ABENIUS and WIDMAN), 1888, A., 824.*p*-(*o*)-Tolylamidobenzoic acid, *m*-amido-, and *m*-nitro- (HEIDENSLEBEN), 1891, A., 306.*p*-(*p*)-Tolylamidobenzoic acid, *m*-amido- (HEIDENSLEBEN), 1891, A., 306.*m*-nitro- (SCHOFFE), 1890, A., 374; (HEIDENSLEBEN), 1891, A., 306. α -Tolylamidobutyric acids, *o*- and *p*- (BISCHOFF and MINTZ), 1892, A., 1338.(Tolyl compounds $Me=1$.)Tolylamidoisobutyric acids, α - and β -*o*- and *p*- (BISCHOFF and MINTZ), 1892, A., 1339.*p*-Tolylamidocinnoline (BUSCH and KLETT), 1892, A., 1494.Tolylamidoethylphthalimide, *o*- and *p*- (NEWMAN), 1891, A., 1207.*p*-Tolylamido-*p*-methyloxindole, and its salts (DUISBERG), 1885, A., 543.*p*-Tolylamidonaphthaquinone, *m*-nitro- (LEICESTER), 1890, A., 1447.

Tolylamidonaphthaquinoneditoluidide (FISCHER and HEPP), 1890, A., 910.

p-Tolylamido- β -naphthaquinone-*p*-toluidide (MELDOLA), 1884, T., 159; (BRÖMME), 1888, A., 491.Tolylamidoperezone, *o*- and *p*- (MYLIUS), 1885, A., 778; (ANSCHÜTZ and LEATHER), 1886, T., 718.

Tolylamidophenol. See Hydroxyphenyltolylamine.

o- α -Tolylamidopropionic acid (TIEMANN and STEPHAN), 1883, A., 199; (GERSON), 1887, A., 260.*p*- α -Tolylamidopropionic acid (TIEMANN and STEPHAN), 1883, A., 199; (BISCHOFF and HAUSDÖRFER), 1892, A., 1337.

3-nitro- (HINSBERG), 1892, A., 1359.

 α -Tolylamidopropionic acids and amides, *o*- and *p*-, and their tribromo-derivatives (TIEMANN and STEPHAN), 1883, A., 199; (STEPHAN), 1887, A., 143.*p*- β -Tolylamidopropionic acid (*p*-tolyl- β -alanine) (BISCHOFF and MINTZ), 1892, A., 1343. α -Tolylamidopropionitriles, *o*- and *p*-, dibromo- (STEPHAN), 1887, A., 143.

and their tribromo-derivatives (TIEMANN and STEPHAN), 1883, A., 199; (STEPHAN), 1887, A., 143.

o-Tolylamidopyrotartarimide (SCHILLER-WECHSLER), 1885, A., 901.*p*-Tolylamidotoluquinone, *m*-nitro- (LEICESTER), 1890, A., 1446.*o*-Tolylamidotricarballylic acid (EMERY), 1891, A., 680.

Tolylamine. See Toluidine.

Tolylammelines (OTTO), 1887, A., 1034.

Tolylanilido-. See Anilidotolyl-.

Tolylaniline, 2:4:6-trinitro- (*trinitro-3* and *dibutylacryl*) (BENTLEY and WARREN), 1890, A., 186; (JACKSON and BENTLEY), 1892, A., 1218.

Tolylauraminesalts (FEHRMANN), 1888, A., 157.

p-Tolylazimidobenzene, amido- (WILLGERODT), 1892, A., 1322.

(*Tolyl compounds Me=1.*)

- Tolylazo-***m*- and -*p*-cresols, sulpho-*o*- and -*p*- (*sulphotoluenecresols*), and salts (NÖLTING and KOHN), 1884, A., 901.
- m*-**Tolylbenzene**. See 1:3-Methyldiphenyl.
- p*-**Tolylbenzene** (*phenyltoluene*), derivatives of (CARNELLEY and THOMSON), 1886, P., 258; 1887, T., 87.
- α*-bromo- (CARNELLEY and THOMSON), 1885, T., 586; P., 88; 1887, T., 87.
- α*- and *β*-dibromo- (CARNELLEY and THOMSON), 1887, T., 89.
- p*-**Tolylbenzenylimidoximecarbonyl** (MÜLLER), 1890, A., 43.
- p*-**Tolylbenzenylthiouramidoxime** (TIEMANN), 1891, A., 558; (KOCH), 1891, A., 561.
- m*-**Tolylbenzoic acid** (PERRIER), 1892, A., 851.
- Tolylbenzylacetic acid**, *o*-, *m*- and *p*- (PÄPCKE), 1888, A., 701.
- p*-**Tolylbenzylisobutylcarbamide** (HAMMERICH), 1892, A., 1084.
- p*-**Tolylbenzylcarbamie chloride** (HAMMERICH), 1892, A., 1083.
- p*-**Tolyl-*o*-benzylenediamine** (SÜDERBAUM and WIDMAN), 1890, A., 1258.
- Tolylbenzyl cyanides**, *o*-, *m*- and *p*- (PÄPCKE), 1888, A., 701.
- o*-**Tolylbenzylideneamine** (ETARD), 1883, A., 179.
- Tolylbenzylisophosphine** (MICHAELIS and GLEICHMANN), 1883, A., 186.
- p*-**Tolylbenzylsemithiocarbazide** (DIXON), 1892, T., 1022.
- Tolylbenzylthiocarbamides**, *o*-, *m*- and *p*- (DIXON), 1891, T., 555.
- p*-**Tolylbromacetic acid** (CLAUS and WEHR), 1891, A., 1366.
- p*-**Tolylbromomethyldisulphone** (OTTO), 1890, A., 381.
- Tolylbutane**. See *iso*Butyltoluene.
- Tolylisobutyric acid**, 6-nitro- (EFFRONT), 1885, A., 152.
- m*-**Tolylcarbamide**, *di-o*-chloro- (KOCK), 1887, A., 810.
- p*-**Tolylcarbamide**, and its derivatives (PINNOW), 1892, A., 460.
- dithio*- (TRUHLAR), 1887, A., 473.
- Tolylcarbinols**, *o*- and *m*- (COLSON), 1885, A., 654.
- Tolylcarbinyl-acetamide and -carbamide** (KRÖBER), 1890, A., 969.
- p*-**Tolyl-*ω*-chlorobenzylsulphone** (OTTO), 1890, A., 380.
- Tolyl-dichloromethyl-dimethylcarbinol** (WILLGERODT and GENIESER), 1888, A., 811.

(*Tolyl compounds Me=1.*)

- p*-**Tolylcumylcarbamide** (GOLDSCHMIDT and GESSNER), 1889, A., 774.
- p*-**Tolyl-*ψ*-cumylcarbamide** (GOLDSCHMIDT and BARDACH), 1892, A., 979.
- o*-**Tolyleyanamide** (TIEMANN), 1889, A., 1165; 1890, A., 1127; (VOLTMER), 1891, A., 558.
- p*-**Tolyl-dibenzylcarbamide** (HAMMERICH), 1892, A., 1083.
- p*-**Tolyl-diethylphosphine** (CZIMATIS), 1883, A., 58.
- o*-**Tolyl-diethylthiocarbamide** (GEBHARDT), 1885, A., 383.
- p*-**Tolyl-dihydro-*β*-phenotriazine** (BUSCH), 1892, A., 734.
- Tolyl-dihydroquinazolines**, *o*- and *p*- (PAAL and BUSCH), 1890, A., 73.
- Tolyl-dimethyl-diamidodiphenylmethane**, *p*-nitro- (NÖLTING), 1892, A., 189.
- Tolyl-dimethyl-diamidophenylmethane** and -diethyl-diamidodiphenylmethane, *p*-nitro- (NÖLTING), 1891, A., 727.
- m*-**Tolyl-dimethylethylmethane** (*tolyl-pentane*) (ESSNER and GOSSIN), 1885, A., 517.
- p*-**Tolyl-dimethylphosphine** and its derivatives (CZIMATIS), 1883, A., 57.
- p*-**Tolyl-dimethylpyrroline** and its dicarboxylic acid (KNORR), 1885, A., 555.
- 1:*o*-**Tolyl-2:3-dimethylpyrazolone** (KNORR), 1884, A., 1153.
- Tolyl-dimethylthiohydantoins**, *o*- and -*p* (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- Tolyl-*β*-dimethyl-*μ*-thiomethoxyglyoxalines**, *ν-o*- and *ν-p*- (MARCKWALD, NEUMARK and STELZNER), 1892, A., 153.
- Tolyl-dioxamide** (SCHIFF and VANNI), 1891, A., 908; 1892, A., 603.
- Tolylene blue and red** (BERNTSEN and SCHWEITZER), 1887, A., 139; (NIETZKI and ERNST), 1890, A., 1114.
- Tolylenealdehydenitrodimethoxybenzenyl-*o*-carboxylic acid** (BISTRZYCKI and CYBULSKI), 1892, A., 1249.
- Tolylene-diamidocyanuric chloride** (FRIES), 1886, T., 741.
- Tolyleneauramine** (FEHRMANN), 1888, A., 157.
- Tolylenebenzenylamidine**, nitro- (BISTRZYCKI and ULFFERS), 1892, A., 1197.
- Tolylene-carbamide** (LEUCKART), 1890, A., 760.
- bromo- (HARTMANN), 1890, A., 975.
- Tolylene-diallyl-dithiocarbamide** (LELLMANN), 1885, A., 977.

(*Tolyl compounds Me=1.*)

- Tolylenediamine** (*diamidotoluene*), action of ethylic chloracetate on (ZIMMERMANN and KNYRIM), 1883, A., 797.
 physiological action of (GIBBS and REICHERT), 1891, A., 1281.
 ferruginous pigment formed in poisoning by (ENGEL and KIENER), 1888, A., 81.
 α - and β -trichloro- (SEELIG), 1885, A., 770.
2:3-Tolylenediamine and its derivatives (LELLMANN), 1885, A., 976.
 4-bromo- (HÜBNER and SCHÜPPHAUS), 1884, A., 1143.
2:4-Tolylenediamine and its salts (NÖLTING and COLLIN), 1884, A., 1007.
 conversion of, into an amidocresol and γ -orcinol (WALLACH), 1883, A., 329.
 citrate (SCHNEIDER), 1888, A., 465.
 dinitro- (NIETZKI and RÖSEL), 1891, A., 192.
 3:5:6-trinitro- (PALMER), 1889, A., 390.
2:6-Tolylenediamine (ULLMANN), 1884, A., 1316.
3:4-Tolylenediamine (SNAPE), 1886, T., 259.
 action of monatomic aldehydes of the fatty series on (HINSBERG), 1887, A., 816.
 action of cyanogen on (BLADIN), 1885, A., 784.
 action of ethylic acetoacetate on (WITT), 1887, A., 247.
 action of ethylic chloracetate on (HINSBERG), 1886, A., 83.
 action of formaldehyde on (FISCHER and WRESZINSKI), 1892, A., 1496.
 derivatives of (AUTENRIETH and HINSBERG), 1892, A., 709.
 oxalic acid derivatives of (HINSBERG), 1883, A., 323.
 5-bromo- (BISTRZYCKI), 1890, A., 970.
 dicyano-, and its derivatives (BLADIN), 1885, A., 257.
3:5-Tolylenediamine (STAEDEL), 1883, A., 865.
Tolylenediamineazobenzeneazobenzene-sulphonic acid (*azosulphobenzene-toluenediamine*) (GRIESS), 1883, A., 1103.
3:4-Tolylenediaminebenzylidenesulphonic acid, sodium salt of (KAFFKA), 1891, A., 721.
2:3-Tolylenediamine-5-sulphonic acid (NIETZKI and POLLINI), 1890, A., 502.

(*Tolyl compounds Me=1.*)

- 2:4-Tolylenediamine-5-sulphonic acid** (LIMPRICHT), 1885, A., 1234; (FOTH), 1886, A., 153.
 derivatives (LIMPRICHT), 1885, A., 1234.
Tolylenediamine-p-thiosulphonic acid (PERL), 1885, A., 391.
2:4-Tolylenedioxamethane (*ethylic tolyldioxamate*) (SCHIFF and VANNI), 1891, A., 907; 1892, A., 603.
Tolylenedioxamic acid (SCHIFF and VANNI), 1891, A., 908; 1892, A., 604.
Tolylenediurethane (SCHIFF and VANNI), 1890, A., 1124.
Tolylene-ethenylamidine (*ethenyltolyl-enediamine*) (NIEMENTOWSKI), 1886, A., 545; 1892, A., 837; (WITT), 1887, A., 247.
 bromo- (HARTMANN), 1890, A., 976.
 nitro- (BANKIEWICZ), 1888, A., 1184.
 mono- and di-nitro- (BISTRZYCKI and ULFFERS), 1892, A., 1197.
Tolyleneisoethenylamidine (*isoethenyltolylenediamine*) and its derivatives (NIEMENTOWSKI), 1892, A., 838.
Tolylene-ethenylethylamidine (*ethylethenyltolylenediamine*) (HINSBERG), 1887, A., 817.
o-Tolylene-ethyldiamine (KOCK), 1888, A., 469.
m-Tolylene-ethyldiamine (NÖLTING and STRICKER), 1886, A., 544.
Tolylenemalonamide (SCHIFF and VANNI), 1892, A., 600.
Tolylenemethenylamidine (*formanhydroisodiamidotoluene*) and its bromo-derivative (HÜBNER and SCHÜPPHAUS), 1884, A., 1143.
Tolylenemethyldiamine (*o-amidomethyltoluidine*) (BAMBERGER and WILZ), 1891, A., 1203.
Tolylenemethylethenylamidine (*methylethenyltolylenediamine*) and its methiodide (NIEMENTOWSKI), 1887, A., 937.
Tolyleneopiamine (BISTRZYCKI), 1888, A., 1210.
Tolyleneoxamide (SCHIFF and VANNI), 1892, A., 599, 1208.
Tolyleneophthalimidone (BISTRZYCKI and CYBULSKI), 1892, A., 1248.
Tolylenepropenylamidine (BISTRZYCKI and ULFFERS), 1890, A., 1115.
Tolylene-semiurethane and -urethane (SCHIFF and VANNI), 1890, A., 1124.
m-Tolylene-dithiocarbamide, and its preparation (BILLETER and STEINER), 1886, A., 234.
Tolylenethiocarbamides, *o*- and *m*- (BILLETER and STEINER), 1887, A., 367.

(Tolyl compounds Me=1.)

m-p-Tolylene-*mono*- and -*di*-thiocarbamides and their derivatives (LELLMANN), 1884, A., 49.Tolylene-*mono*- and -*di*-thiocarbimides (BILLETER and STEINER), 1886, A., 234.*m*-Tolylene*di*thiourethane (BILLETER and STEINER), 1887, A., 367.

Tolylenic diazosulphide (JACOBSON and NEY), 1889, A., 772.

m-Tolylenic diisocyanate (SNAPE), 1886, T., 257.

Tolylethynylamidine (WALLACH), 1883, A., 48.

Tolylethylenediamines, *o*- and *p*- (NEWMAN), 1891, A., 1207.*p*-Tolylethylhydrazidopyruvic acid (HEGEL), 1886, A., 552.*p*-Tolylethylnitrosamine (GASTIGER), 1885, A., 381.*o*-Tolylethylsemithiocarbazide (DIXON), 1890, T., 262.*p*-Tolylethylsulphone (OTTO), 1885, A., 537.

Tolylethylthiobiuret (TURSINI), 1884, A., 1141.

p-Tolylethylthiourethane, *o*-nitro- (STEUDEMANN), 1884, A., 307.*p*-Tolylformamidine, cyano- (COMSTOCK and WHEELER), 1892, A., 707.

Tolylfurfuryl-carbamide and -thiocarbamide (DEUTZMANN), 1892, A., 43.

Tolylglycocine (tolylglycin). See Tolylamidoacetic acid.

o-Tolylglycollic acid (OGLIALORO-TODARO and CANNONE), 1890, A., 375.*m*-Tolylglycollic acid (OGLIALORO-TODARO and FORTE), 1891, A., 320.*p*-Tolylglycollic acid, derivatives of (NAPOLITANO), 1883, A., 1126.*p*-Tolylglyoxal hydrate (MÜLLER and v. PECHMANN), 1890, A., 52.*ν-p*-Tolylglyoxaline (MARCKWALD), 1892, A., 1329.*ν-p*-Tolylglyoxalyl methyl sulphide (MARCKWALD), 1892, A., 1329.*ν-p*-Tolylglyoxalyl-*μ*-mercaptan (MARCKWALD), 1892, A., 1328.*p*-Tolylglyoxylic acid (v. BUCHKA and IRISH), 1887, A., 826; (CLAUS and KROSEBERG), 1887, A., 948; (v. BUCHKA), 1887, A., 949.

Tolylglyoxylic aldehyde (CLAUS), 1890, A., 769.

p-Tolyhexyldihydrotolutriazine (GOLDSCHMIDT and POLTZER), 1891, A., 842.*o*-Tolylhydantoin (EHRlich), 1883, A., 1106.

(Tolyl compounds Me=1.)

γ-Tolylhydantoin (QUENDA), 1892, A., 828.*p*-Tolylhydrazidoacetone (RASCHEN), 1887, A., 956.*p*-Tolylhydrazidocamphoric acid (CHAPLIN), 1892, A., 1481.Tolylhydrazidopyruvic acids, *o*- and *p*- (RASCHEN), 1887, A., 956.*m*-Tolylhydrazine (v. BUCHKA and SCHACHTEBECK), 1889, A., 702.*p*-Tolylhydrazine, action of chloroform and alcoholic potash on (RUHEMANN), 1889, T., 247.

sulphonation of (GALLINEK and v. RICHTER), 1886, A., 237.

phosphenite (MICHAELIS and OSTER), 1892, A., 1325.

Tolylhydrazinedisulphonic acid (RICHTER), 1886, A., 152.

Tolylhydrazine-*o* sulphonic acid (BRACKETT and HAYES), 1888, A., 279.*p*-Tolylhydrazine-5-sulphonic acid, 2-nitro- (LIMPRICHT), 1885, A., 1216; (FOTH), 1886, A., 153.Tolylhydrazinesulphonic acids, *o*- and *p*- (LIMPRICHT), 1885, A., 1216.

action of concentrated sulphuric acid on (SCHNEIDER), 1887, A., 146.

p-Tolylhydrazo-*p*-cresetol (NÖLTING and WERNER), 1891, A., 214.*o*-Tolylhydrazo-*p*-cresol and *p*-tolylhydrazo-*o*-cresol (NÖLTING and WERNER), 1891, A., 213.*p*-Tolylhydrazone (JAPP and KLINGEMANN), 1888, T., 544.

thionyl- (MICHAELIS and RUHL), 1890, A., 617; 1892, A., 1324.

p-Tolylhydrazophenetol (NÖLTING and WERNER), 1891, A., 212.

Tolylhydrazonopyruvic acids, action of heat on (JAPP and KLINGEMANN), 1888, T., 543.

p-Tolylhydrazotolyl-*mono*- and -*di*-thiobiazolone (FREUND), 1892, A., 512.*p*-Tolylhydroxyethylamine (SCHREIBER), 1891, A., 552.*p*-Tolyl acetate, diiodo- (SCHALL and DRALLE), 1885, A., 146.Tolylic *o*-acetates, *o*-, *m*- and *p*- (HEIBER), 1892, A., 308.*p*-Tolylic benzoate, diiodo- and diiodo- (SCHALL and DRALLE), 1885, A., 146.Tolylic dichlorides, isocyno-, *o*- and *p*- (NEF), 1892, A., 1441.mercuric chlorides, *o*-, *m*- and *p*- (MICHAELIS and GENZKEN), 1884, A., 146.

(*Tolyl compounds Me=1.*)

p-Tolylic cinnamate, and the action of heat on (ANSCHÜTZ), 1885, T., 898; A., 1064.

Tolylic cyanate, nitro- (GATTERMANN and CANTZLER), 1892, A., 833.

cyanates, polymerisation products of (FRENTZEL), 1888, A., 454.

m-Tolylic isocyanate (HEILMANN), 1891, A., 201.

Tolylic isocyanides, *o*- and *p*- (NEF), 1892, A., 1441.

cyanurates, *o*- and *p*- (FRENTZEL), 1888, A., 454.

p-Tolylic diphenylcarbamate (LELLMANN and BENZ), 1891, A., 1215.

Tolylic ethylxanthates, *o*-, *m*- and *p*- (LEUCKART), 1890, A., 603.

p-Tolylic fumarate and action of heat on (ANSCHÜTZ and WIRTZ), 1885, T., 901; A., 1064.

laurate, myristate, palmitate and stearate (KRAFFT and BÜRGER), 1884, A., 1125.

Tolylic phenylcarbamates, *o*- and *p*- (LEUCKART), 1890, A., 760.

p-Tolylic phenylmethylcarbamate (LELLMANN and BENZ), 1891, A., 1215.

o-Tolylic phosphate, *dichloro*- (STUART), 1888, T., 403; P., 24.

p-Tolylic phosphate (RAPP), 1884, A., 1338.

Tolylic phosphates, nitration of (RAPP), 1884, A., 1337.

sulphide (PURGOTTI), 1890, A., 1420.

disulphide, sulpho- (OTTO and TRÖGER), 1891, A., 924.

tetrasulphide (OTTO), 1887, A., 923.

p-Tolylic *s*-*dithiocarbonate* (LEUCKART), 1890, A., 603.

Tolylic thiocyanates, *o*- and *p*- (THURNAUER), 1890, A., 749.

o-Tolylic *o*-tolylcarbamate (GATTERMANN and CANTZLER), 1892, A., 832.

o-Tolyl- β -imidobutyric acid (PAWLEWSKI), 1889, A., 1171.

Tolyl- β -imidobutyric acids, *o*- and *p*-, synthesis of (KNORR), 1884, A., 1198.

Tolylimidocarbonyl chloride (NEF), 1892, A., 1441.

o-Tolylimidodiacetamide (BISCHOFF and HAUSDÖRFER), 1892, A., 1335.

o-Tolylimidodiacetic acid (BISCHOFF and HAUSDÖRFER), 1890, A., 1285.

ammonium salt of (BISCHOFF and HAUSDÖRFER), 1892, A., 1335.

p-Tolylimidodiacetic acid (BISCHOFF and HAUSDÖRFER), 1890, A., 1285; 1892, A., 1336.

(*Tolyl compounds Me=1.*)

p-Tolylimidodiacetic ditoluidide (BISCHOFF and HAUSDÖRFER), 1892, A., 1336.

o-Tolylimidodiacetamide (BISCHOFF and HAUSDÖRFER), 1892, A., 1335.

Tolylimidodiphenylethylic alcohols (*o*- and *p*-*tolilbenzols*) (BANDROWSKI), 1889, A., 147.

p-Tolylimidomethylenic ethylenic *disulphide* (MIOLATI), 1891, A., 895.

o-Tolylindigo (HEUMANN), 1891, A., 837.

p-Tolylidomethylsulphone (OTTO), 1888, A., 482.

p-Tolylketodihydroquinazoline (PAAL and BUSCH), 1890, A., 73.

Tolylketone aldehyde (*tolylglyoxylic aldehyde*) (CLAUS), 1890, A., 769.

p-Tolylketotetrahydroquinazoline (BUSCH), 1892, A., 1496.

Tolylmethyldihydrophenotriazine (GOLDSCHMIDT and POLTZER), 1891, A., 841.

2'-*p*-Tolylmethyl-3'-ethyldihydrophenotriazine (GOLDSCHMIDT and POLTZER), 1891, A., 842.

p-Tolyl-*p*-methyl- ψ -isatin, derivatives of (DUISBERG), 1885, A., 544.

Tolylmethylenediamine (FISCHER), 1889, A., 731.

1-*m*-Tolyl-2-*m*-methylphenyl-3-methylpyrazolone (1:2-*di-m*-tolyl-3-methylpyrazolone) (V. PERGER), 1886, A., 1046.

p-Tolyl- α -methylphthalimide (NIEMEN-TOWSKI), 1892, A., 608.

o-Tolylmethylpropylene- ψ -thiocarbamide (PRAGER), 1890, A., 160.

1-*o*- and *p*-Tolyl-3-methylpyrazolone (KNORR), 1884, A., 1153.

1-*p*-Tolyl-3-methylpyrazolone-4-*p*-tolylhydrazone (V. BUCHKA and SPRAGUE), 1890, A., 29; (SPRAGUE), 1891, T., 340.

p-Tolylmethylsulphone (OTTO), 1885, A., 537.

mono- and *di*-chloro- (OTTO), 1890, A., 380.

Tolylmethylthiocarbamides, *o*- and *p*- (DIXON), 1889, T., 620.

o-Tolylmethylthiohydantoin (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.

o-Tolyl- α - and - β -naphthylamines (FRIEDLÄNDER), 1884, A., 80.

p-Tolyl- α -naphthylamine (FRIEDLÄNDER), 1884, A., 80.

p-Tolyl- β -naphthylamine (FRIEDLÄNDER), 1884, A., 80; (WITT), 1887, A., 592.

(Tolyl compounds $Me=1$.)

- Tolynaphthylenediamine** (FISCHER), 1892, A., 1476.
- p*-Tolyl-*o*-naphthylenediamine and its anhydro- and thio-derivatives (FISCHER), 1892, A., 1473.
- Tolynaphthylsulphides** (BOURGOIS), 1891, A., 1238.
- m*-Tolynitromethane (HEILMANN), 1891, A., 201.
- Tolynitrotoluenesulphazide**, nitro- (LIMPRICHT), 1887, A., 723.
- Tolyoctane**, amido- (*tolyctylamine*) and its derivatives (BERAN), 1885, A., 524.
- p*-Tolylosazoneglyoxalcarboxylic acid (NASTVOGEL), 1889, A., 238.
- Tolyloxamethane**, amido-, and nitro-. See Ethylic amido- and nitro-tolyloxamates.
- o*-Tolyloxamic acid (MAUTHNER and SUIDA), 1886, A., 886.
- p*-Tolyloxamic acid, 2-amido- (SCHIFF and VANNI), 1890, A., 1125; 1891, A., 833; 1892, A., 599, 601, 1208.
- 3-nitro-, and its derivatives (HINSBERG), 1883, A., 323; (SCHIFF and VANNI), 1892, A., 601.
- p*-Tolyloxamide, nitro- (SCHIFF and VANNI), 1892, A., 601.
- p*-Tolyl-oxamide and -oxanilide, 2-amido- (SCHIFF and VANNI), 1891, A., 834; 1892, A., 602.
- Tolyloxamides**, *o*-, *m*- and *p*- (BLADIN), 1884, A., 1142.
- Tolyloxy-ethylamine**, -ethylaniline, -ethylcarbamide and -ethylphthalamic acid (SCHREIBER), 1891, A., 552.
- p*-Tolyloxyethylphthalimide, and its dinitro-derivative (SCHREIBER), 1891, A., 552.
- Tolypentane** (ESSNER and GOSSIN), 1885, A., 517.
- Tolylphenyl-**. See Phenyltolyl-.
- o*-Tolylphthalamic acid and its methyl derivatives (KUARA), 1887, A., 586.
- p*-Tolylphthalide (GRESLY), 1886, A., 1028.
- o*-Tolylphthalimide (PIUTTI), 1884, A., 453; (KUARA), 1887, A., 586.
- preparation of (HALLER), 1892, A., 1204.
- 1-*p*-Tolylpiperidine (LELLMANN and JUST), 1891, A., 1244.
- p*-Tolylpropaldehyde and its derivatives (v. RICHTER and SCHÜCHNER), 1884, A., 1342.
- α-p*-Tolylpropaldehyde (v. MILLER and ROHDE), 1890, A., 898; (ERRERA), 1891, A., 1020.

(Tolyl compounds $Mr=1$.)

- m*-Tolylpropionic acid (MÜLLER), 1887, A., 725.
- o*-Tolylpropionic acid (*o*-methylhydrocinnamic acid) (YOUNG), 1892, A., 1221.
- m*-Tolylpropionic acid [m.p. 125°] (EFFRONT), 1885, A., 152.
- nitro- (EFFRONT), 1885, A., 152.
- m*-Tolylpropionic acid (*m*-methylhydrocinnamic acid) [m.p. 40°] (MÜLLER), 1887, A., 724.
- p*-Tolylpropionic acid (*p*-methylhydrocinnamic acid) (KRÜBER), 1890, A., 969.
- α-p*-Tolylpropionic acid (*methylhydrocinnamic acid*) (v. MILLER and ROHDE), 1890, A., 978, 1140; (ERRERA), 1891, A., 1021; (ERRERA and BALDRACCO), 1892, A., 605.
- m*-diamido- and *m*-dinitro- (ERRERA and BALDRACCO), 1892, A., 606.
- Tolylpropionic acid**. See also Methylhydrocinnamic acid.
- α-p*-Tolylpropionitrile (ERRERA), 1891, A., 1021.
- α-p*-Tolylpropylene (ERRERA), 1885, A., 772.
- β-p*-Tolylpropylene (ERRERA), 1891, A., 1021.
- Tolylpropylene-ψ-semithiocarbazides**, *o*- and *p*- (AVENARIUS), 1891, A., 550.
- o*-Tolylpropylene-ψ-thiocarbamide (PRAGER), 1890, A., 160.
- α-p*-Tolylpropylic alcohol (ERRERA), 1891, A., 1021.
- p*-Tolyl-*n*- and -*iso*-propylnitrosamines (HORI and MORLEY), 1891, T., 34.
- 1-Tolylpyrazoles, *o*- and *p*- (BALBIANO), 1889, A., 1216.
- 1-Tolylpyrazolethylammonium iodides, *o*- and *p*- (BALBIANO), 1889, A., 1216.
- 1-Tolylpyrazolines, *o*- and *p*- (BALBIANO), 1889, A., 1216.
- p*-Tolylpyrrolinedibenzoic acid (BAUMANN), 1887, A., 736.
- 3'-*m*-Tolylisoquinoline (HEILMANN), 1891, A., 202.
- 1'-chloro- (HEILMANN), 1890, A., 625; 1891, A., 202.
- 3'-*p*-Tolylisoquinoline and 1'-chloro- (RUHEMANN), 1892, A., 474.
- p*-Tolylrosinduline and *iso-p*-tolylrosinduline (FISCHER and HEPP), 1890, A., 909.
- Tolylsemicarbazides**, *o*- and *p*- (PINNER), 1888, A., 687.
- Tolylstibine**, and its derivatives (MICHAELIS and GENZKEN), 1884, A., 1135.

(Tolyl compounds Me=1.)

- Tolylsulphone** (PURGOTTI), 1890, A., 1420.
- p*-**Tolylsulphoneacetic acid** (OTTO), 1885, A., 537.
- p*-**Tolylsulphoneacetone** (R. and W. OTTO), 1888, A., 282.
- p*-**Tolylsulphone-ethyl and -ethylamine derivatives** (OTTO and DAMKÖHLER), 1885, A., 538.
- a-p*-**Tolylsulphonepropionic acid** (OTTO), 1890, A., 382.
- preparation of the ethyl salts of (OTTO), 1885, A., 537.
- Tolylsulphophenylbenzenylamidine** (WALLACH), 1883, A., 48.
- p*-**Tolyltetrahydroquinazoline** (PAAL and BUSCH), 1890, A., 73.
- p*-**Tolyltetrahydrothioquinazoline** (BUSCH), 1892, A., 1496.
- Tolythiazolines**, *μ-o*-, and *μ-p*- (GABRIEL and HEYMANN), 1891, A., 701.
- Tolythiobiuret**, and its acetyl-derivative (TURSINI), 1884, A., 1140.
- Tolythiocarbamic acids**, salts of (LOSANITSCH), 1892, A., 56.
- m*-**Tolythiocarbamide**, *di-o*-chloro- (KOCK), 1887, A., 810.
- p*-**Tolythiocarbamide**, action of acetic anhydride on (WERNER), 1891, T., 403.
- 2-nitro- (STEUDEMANN), 1884, A., 307.
- thio- (TRUHLAR), 1887, A., 473.
- Tolythiocarbazinic o- and p-tolylhydrazides**, *o*- and *p*- (FREUND), 1892, A., 511.
- o*-**Tolythiocarbimide**, preparation of (WERNER), 1891, T., 402.
- action of aldehyde-ammonia on (DIXON), 1888, T., 418.
- action of, on thialdine (DIXON), 1889, T., 626.
- m*-**Tolythiocarbimide**, preparation of (WERNER), 1891, T., 403.
- p*-**Tolythiocarbimide**, preparation of (WERNER), 1891, T., 404.
- oxide (HELMERS), 1887, A., 581.
- nitro- (STEUDEMANN), 1884, A., 307.
- Tolyldithiocarbimide** (HOBBS), 1888, A., 708.
- o*-**Tolythiocarbimide-aldehyde-ammonia** (DIXON), 1892, T., 520.
- o*-**Tolythiohydantoin** (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- p*-**Tolythiourethane**, *o*-nitro- (STEUDEMANN), 1884, A., 307.
- o*-**Tolytoluenesulphazide** (LIMPRICHT), 1887, A., 723.

(Tolyl compounds Me=1.)

- 1:4-*o*-**Tolyl-p-tolyldiketopyrazine**, 3:6-dichloro- (ABENIUS), 1890, A., 526.
- p*-**Tolyl-2:4-tolylenediamine** (*amido-ditolylamine*) (FISCHER and SIEDER), 1891, A., 434.
- p*-**Tolyl-3:4-tolylenediamine**, formation of, from *p*-ditolyhydrazine, and its derivatives (TAUBER), 1892, A., 853.
- p*-**Tolyl-o-tolyleneguanidine** (KELLER), 1891, A., 1470.
- Tolyl-p- and -o-tolylsemithiocarbazides**, *o*- and *p*- (DIXON), 1892, T., 1015.
- Tolyltrimethylphosphonium periodide** (CZIMATIS), 1883, A., 57.
- Tolylurazoles**, *o*- and *p*- (PINNER), 1888, A., 687.
- Tolylurethane**, amido- (SCHIFF and VANNI), 1892, A., 600; (SCHIFF), 1892, A., 1203.
- 4-nitro- (SCHIFF and VANNI), 1892, A., 601.
- Tomato**, cooked, composition of (WILLIAMS), 1892, T., 227.
- Tomatoes**, composition and anatomical structure of the fruit of (BRIOSI and GIGLI), 1891, A., 955; (PASSERINI), 1891, A., 956.
- Tonometer**, differential (BREMER), 1888, A., 402.
- Topaz**, Brazilian, liquid inclusions in (v. NORDENSKIÖLD), 1886, A., 674.
- from Maine, U.S. (BRADBURY), 1884, A., 27; (CLARKE and DILLER), 1886, A., 213.
- from Pike's Peak, Colorado (CROSS and HILLEBRAND), 1883, A., 1065.
- from Tasmania (v. GRODECK), 1886, A., 603.
- from the Thomas range, Utah (ALLING), 1887, A., 453.
- in rhyolite (CROSS), 1886, A., 991.
- pyroelectricity of (FRIEDEL and CURIE), 1885, A., 469.
- See also Aluminium silicofluorides.
- Torpedo**, chemical studies on (WEYL), 1887, A., 1128.
- Torpedo-mucin** (WEYL), 1887, A., 1128.
- Tortoise**, urine of the (MILLS), 1887, A., 170.
- Tourmaline** from Bohemia (KATZER), 1888, A., 923.
- blue, from Chapéy (MICHEL-LÉVY), 1886, A., 214.
- from Japan (WADA), 1885, A., 222.
- from New South Wales (LIVERSIDGE), 1886, A., 774.
- black, from North Carolina (HIDDEN and DES CLOIZEAUX), 1887, A., 118.

- Tourmaline** from Schüttenhofen, constitution and colour of (SCHARIZER), 1889, A., 764.
 red, from Siberia (PRENDEL), 1892, A., 573.
 from Tasmania (v. GRODDECK), 1886, A., 603.
 chromic, in the Urals (COSSA and ARZRUNI), 1883, A., 444.
 composition of (RIGGS), 1888, A., 659; (JANNASCH and KALB), 1889, A., 472; (RAMMELBERG; KALB), 1891, A., 24.
 formula of (WÜLFING), 1889, A., 765; (KENNGOTT), 1892, A., 1410.
 effect of heat on the optical properties of (DOELTER), 1885, A., 26.
 thermal conductivity of (STENGER), 1885, A., 5.
- Tourmaline-bearing copper ores** from Chili (v. GRODDECK), 1890, A., 114.
- Tourmalinic-pegmatite** from Ričau (KATZER), 1889, A., 357.
- Toxalbumin** secreted by the microbe of blennorrhagic pus (HUGOUNEQ and ERAUD), 1891, A., 1521.
- Toxicological investigations** (HESS and LUCHSINGER), 1885, A., 578; (LECCO), 1886, A., 743; 1891, A., 864; (MARINO-ZUCO), 1889, A., 653; (CIOTTO and SPICA), 1891, A., 772.
 See also Physiological action and Poisoning.
 and chemical relations of some fungi (BÖHM), 1885, A., 1008.
- Trachyte** of Gleichenberg, action of water containing carbonic acid on (CLAR), 1884, A., 569.
- Trachytes** of the Eperies-Tokay mountains (ROTH), 1886, A., 131.
- Trachyte-dolerites** of the Vogelsberg (LEDROIT), 1887, A., 904.
- Trachyte-region** of the Rhodope (PETZ and HUSSAK), 1884, A., 111.
- Transfusion** of mixtures of blood and salt solution (MARSHALL), 1891, A., 317.
- Transition point** (ROOZEBOOM), 1888, A., 1147.
 and point of fusion (VAN'T HOFF), 1888, A., 404.
 points, triple and multiple points regarded as (ROOZEBOOM), 1888, A., 1151.
- Translocation**, diastase of (BROWN and MORRIS), 1890, T., 509.
- Transpiration** (CHABREIL), 1892, A., 1267.
 and assimilation, relation between the, produced by chlorophyll (JUMELLE), 1890, A., 190.
- Transportation of solids in a vacuum** by the vapours of metals (MORSE and WHITE), 1892, A., 1386.
- Trees.** See Agricultural Chemistry.
- Trehalose.** See Carbohydrates.
- Tremolite** (*grammatite*) from Nordmarken (FLINK), 1889, A., 221.
 chemical composition of (BERWERTH), 1886, A., 28.
 crystallographical examination of (PRIMICS), 1885, A., 733.
- Triacetic acid**, δ -lactone of, and its reactions (COLLIE), 1891, T., 607; P., 114.
 preparation of pyridine derivatives from (COLLIE and MYERS), 1892, T., 721; P., 131.
- Triacetin** (*triacetyl-glycerol*) (SEELIG), 1892, A., 289.
 preparation of (BÜTTINGER), 1891, A., 1183.
- Triacetonealkamine** (*hydroxytetramethylacetylpyridine*) (FISCHER), 1883, A., 1153.
 preparation of (FISCHER), 1884, A., 1290.
- ψ -**Triacetonealkamine** (FISCHER), 1884, A., 1290.
- Triacetoneamine** (FISCHER), 1884, A., 1290.
 action of phosphorus pentachloride and oxychloride on (FISCHER), 1883, A., 790.
 homologues of (FISCHER), 1884, A., 1290.
- Triacetone-methylalkamine** and its salts (FISCHER), 1883, A., 1153.
- Triacetone-trisulphone** (BAUMANN and FROMM), 1890, A., 26.
- Triacetoneine** (*tetramethyltetrahydropyridine*) and its salts (FISCHER), 1883, A., 1153; 1884, A., 1290.
 nitroso- (FISCHER), 1884, A., 1290.
- ψ -**Triacetoneine** (FISCHER), 1884, A., 1291.
- Triacetoxypentane** (PRUNIER), 1884, A., 1284.
- Triacetyl-diamidohydroxynaphthyl-phenyl** (MELDOLA and MORGAN), 1889, T., 124.
- Triacetyldiamido- α -naphthol** and its nitro-derivative (MEERSON), 1888, A., 713.
- Triacetyldiamido- β -naphthol** (LOEWE), 1890, A., 1424.
- Triacetyltriamidophenol** (BAMBERGER), 1884, A., 309.
- Triacetyl-diamidothymol** (MAZZARA), 1891, A., 188.
- 1:3:5-Triacetylbenzene** (CLAISEN and STYLOS), 1888, A., 671.

- Triacetyl-*l*-bromobrazilein** (SCHALL and DRALLE), 1890, A., 997.
- Triacetyl-ethenyl-*l*-tetramidotoluene** (NIE-TZKI and RÖSEL), 1891, A., 192.
- Triacetylformamidil** (PINNER), 1884, A., 723.
- Triacetyl-gallamide** (MARX), 1891, A., 1220.
- Triacetyl-gentisein** (v. KOSTANECKI), 1891, A., 1244, 1386.
- Triacetyl-glycerol**. See **Triacetin**.
- Triacetylic cyanurate** (PONOMAREFF), 1886, A., 217.
- Triacetyl-leucaniline and -*para*-leucaniline** (RENOUF), 1883, A., 981.
- Triacetylmoradin** (ARATA and CANZONERI), 1890, A., 405.
- Triacetyl- and -isotriacetyl-quinide** (ERWIG and KOENIGS), 1889, A., 991.
- s*-Trialkylpyridines**, oxidation of (ALTAR), 1887, A., 378.
- Triallylamine**, action of sulphuric acid on (LIEBERMANN and HAGEN), 1883, A., 1086.
- Triallyloxymethane**, preparation of (BEILSTEIN and WIEGAND), 1885, A., 740.
- Triammonium salts**. See under **Ammonium**.
- Tri-*iso*-amylbismuthine** (MARQUARDT), 1888, A., 1067.
- Trianhydropyruvic acid**, phosphorus salt of (MESSINGER and ENGELS), 1889, A., 36.
- Trianilidobenzene**, bromo-*dinitro*- (JACKSON and BANGROFT), 1890, A., 982.
- dinitro*-** (PALMER and JACKSON), 1890, A., 248.
- trinitro*-** (JACKSON and WING), 1888, A., 1276.
- Trianilidonaphthalene** (FISCHER and HEPP), 1890, A., 911.
- Trianiline disilicotetrafluoride** (COMEY and JACKSON), 1888, A., 942.
- Trianisin** (FRITSCH), 1891, A., 708.
- Trianisylarsine** (MICHAELIS and WEITZ), 1887, A., 267.
- Triarabinan-tri- and -tetra-galactan-geddic acids** (O'SULLIVAN), 1891, T., 1037, 1071.
- Triauramine** (RASCHIG), 1887, A., 112.
- Triazidoacetamide** (CURTIUS and LANG), 1889, A., 370.
- Triazine derivatives**, synthesis of (MELDOLA), 1890, T., 328; P., 37.
- nomenclature of** (MELDOLA and FORSTER), 1891, T., 679.
- substituted**, preparation of (MELDOLA and FORSTER), 1891, T., 679.
- nitro-**, reduction of (MELDOLA and FORSTER), 1891, T., 701.
- Triazine-series** (MELDOLA and FORSTER), 1891, T., 678; P., 123.
- Triazo-compounds**. See under **Azo**.
- Triazole** (ANDREOCCI), 1892, A., 636; (BLADIN), 1892, A., 735.
- derivatives of** (BLADIN), 1892, A., 637.
- Triazoles**, nomenclature of (KEHRMANN and MESSINGER), 1892, A., 889.
- Triazolecarboxylic acid** (ANDREOCCI), 1892, A., 636; (BLADIN), 1892, A., 735.
- Triazole-series**, amidoximes and azoximes of (BLADIN), 1889, A., 977.
- Tribenzamide** (CURTIUS), 1891, A., 58.
- Tribenzamidophloroglucinol**, synthesis of (RÜGHEIMER), 1889, A., 249.
- Tribenzoicin** (VAN ROMBURGH), 1883, A., 63.
- Tribenzon** (FRITSCH), 1891, A., 708.
- Tribenzoyl-*l*-amidobenzene** (HINSBERG and v. UDRÁNSZKY), 1890, A., 370.
- Tribenzoyl-*l*-amido- β -naphthol** (LOEW), 1890, A., 1424.
- o*-Tribenzoylbenzene** (HAUSMANN), 1889, A., 1172.
- Tribenzoyl-*iso*-dulcitol** (RAYMAN), 1887, A., 907.
- Tribenzoylglycerol** (SKRAUP), 1889, A., 1152.
- Tribenzoyl- β -hydrojuglone** (MYLIUS), 1886, A., 69.
- Tribenzoylmesitylene** (LOUISE), 1884, A., 1000.
- Tribenzoylmethane** (v. BAEYER and PERKIN), 1884, A., 64.
- preparation and properties of** (PERKIN), 1885, T., 252.
- 1:2:3-Tribenzoylpropane** (EMERY), 1891, A., 680.
- Tribenzoylpyrogallol** (SKRAUP), 1889, A., 1152.
- Tribenzylarsine** (LEUCKART), 1885, A., 1215.
- boiling point of** (SCHWETZER), 1891, A., 1240.
- action of bromine on** (WALLACHER), 1891, A., 189.
- action of sodium on** (JACKSON and WING), 1886, A., 616.
- derivatives of** (MARQUARDT), 1886, A., 615.
- Tribenzylarsine**, and its derivatives (MICHAELIS and PAETOW), 1885, A., 527.
- Tribenzylcarbamide** (HAMMERICH), 1892, A., 1083.
- Tribenzylethenyltrisulphone** (LAVES), 1892, A., 613.
- Tribenzylethylammonium iodide** (MARQUARDT), 1886, A., 613.

- Tribenzylethylphosphonium chloride**, action of heat on (COLLIE), 1888, T., 725.
- Tribenzylhomo-*o*-phthalimide** (PULVERMACHER), 1887, A., 1112.
- α -Tribenzylhydroxylamine** (WALDER), 1886, A., 796.
- β -Tribenzylhydroxylamine** (BECKMANN), 1889, A., 608; (BEHREND and LEUCHS), 1889, A., 703.
- Tribenzylic phosphate** (LOSSEN and KÖHLER), 1891, A., 1015.
- Tribenzylic *o*-thioacetate** (LAVES), 1892, A., 612.
- Tribenzylidenediamine**. See Hydrobenzamide.
- Tribenzylidenemannitol** (MEUNIER), 1888, A., 1049.
- Tribenzylmethyllummonium iodide and hydroxide** (MARQUARDT), 1886, A., 615.
- Tribenzylphosphine** (LETTS and BLAKE), 1890, A., 767.
oxide, identity of, with Hofmann's dibenzylphosphine (LETTS and BLAKE), 1890, A., 492.
action of chlorine, of nitric acid and of sulphuric acid on (COLLIE), 1889, T., 225.
some compounds of, and trinitro- (COLLIE), 1889, T., 223; P., 45.
- Tribenzylisopropylammonium iodide** (MARQUARDT), 1886, A., 615.
- Tribenzylpyridine** (RÜGHEIMER), 1892, A., 1365.
- Tribenzyltriphenylguanidine** (MANNS), 1889, A., 261.
- Tribenzyltrisulphonephenylmethane** (LAVES), 1892, A., 613.
- Tribrassidin** (REIMER), 1887, A., 233.
heats of combustion and formation of (STOHMANN and LANGBEIN), 1891, A., 11.
- Tribromhydrin** (1:2:3-*tribromopropane*), formation of (KRONSTEIN), 1892, A., 577.
- Triisobutoxytribenzaldehyde** (BAUMANN and FROMM), 1891, A., 1051.
- Triisobutylamine**, preparation of (MALBOT), 1887, A., 356.
platinochloride (MALBOT), 1887, A., 461.
- tert.-Tributylbenzene** (SEŃKOWSKI), 1890, A., 1297.
- Triisobutylbismuthine** (MARQUARDT), 1888, A., 1066.
- Triisobutylene** (PUCHOT), 1884, A., 167.
heat of combustion of (MALBOT), 1890, A., 320.
dichloride, *dichloro-* (MALBOT and GENTIL), 1889, A., 843.
- "Triisobutylphenylguanidine"** (PAHL), 1884, A., 1010.
- Tricalcium phosphate**. See under Calcium phosphate.
- Tricaprylamine**. See Trioctylamine.
- Tricarballylamide** [m.p. 205—207°] (EMERY), 1890, A., 133.
[m.p. 218°] (DÄUMICHEN), 1889, A., 239.
- Tricarballyl-amidimide and -anilic acid** (DÄUMICHEN), 1889, A., 238.
- Tricarballylanilide** (EMERY), 1890, A., 133.
- Tricarballyl-*p*-ditolyl and -*p*-ditoluidic acid** (DÄUMICHEN), 1889, A., 238.
- Tricarballylic acid and its derivatives** (BISCHOFF), 1883, A., 46; (DÄUMICHEN), 1889, A., 238; (EMERY), 1890, A., 133; 1891, A., 680.
synthesis of (EMERY), 1891, A., 423.
heat of combustion of (LUGININ), 1889, A., 668.
dissociation constant of (WALKER), 1892, T., 707.
salts of (GUINOCHET), 1890, A., 480.
potassium salts of, and their heats of formation (MASSOL), 1892, A., 762.
*di*bromo- (GUINOCHET), 1890, A., 594.
- Tricarballylic acids**, attempts to prepare alkyl-substituted (BISCHOFF and v. KUHLEBERG), 1890, A., 747.
- Tricarballylic chloride** (EMERY), 1890, A., 133.
- Tricarballyl-phenylhydrazidic acid and -*o*-toluic acid** (EMERY), 1891, A., 680.
- Tricarballyl-*p*-toluic acid and -*p*-toluidide** (DÄUMICHEN), 1889, A., 238.
- Tricarbamilidohydroxyhydrazobenzene** (GOLDSCHMIDT and ROSELL), 1890, A., 615.
- Tricarbamilidophloroglucinol** (GOLDSCHMIDT and MEISSLER), 1890, A., 500.
- Tricarbopyridinic acid**. See Pyridine-2:4:6-tricarboxylic acid.
- Trichlorhydrin** (1:2:3-*trichloropropane*), action of triethylamine on (REBOUL), 1883, A., 307.
- Tricinnamtetra-ureide** (BIGINELLI), 1892, A., 57.
- Tri-*p*-cresotin** (FRITSCH), 1891, A., 708.
- Tricresyl-**. See Tritolyl-.
- Tricyanides** (KRAFFT and HANSEN), 1889, A., 696; (OTTO), 1889, A., 951; (KRAFFT and KOENIG), 1890, A., 1252.
formation of, from nitriles and acid chlorides (EITNER and KRAFFT), 1892, A., 1183.
- Tricyanuramide** (SCHNEIDER), 1885, A., 1193.

- Tricyclic systems**, reduction of (BAMBERGER), 1891, A., 1258.
- Tridecylduodecylcarbamide**, **tridecylamide** and **tridecylamine** and its salts and **tridecyl nitrile** (LUTZ), 1886, A., 685.
- Tridecyl lutidine** and **tridecyl lutidine-dicarboxylic acid hydrochloride** (KRAFFT and MAI), 1889, A., 1017.
- 2'-Tridecylquinoline** (KRAFFT), 1890, A., 1234.
- Tri-*p*-diphenylmethaneguanidine** (*tribenzyltriphenylguanidine*) (MANNS), 1889, A., 261.
- Tridymite** (MALLARD), 1890, A., 1070.
preparation of (MEUNIER), 1891, A., 22.
artificial production of (V. CHRUST-SCHOFF), 1887, A., 559; (BRUNNS), 1890, A., 112.
expansion of (LE CHATELIER), 1890, A., 1371.
See also **Silicon dioxide**.
- Trierucin** (REIMER and WILL), 1887, A., 1030.
heats of combustion and formation of (STOHMANN and LANGEIN), 1891, A., 11.
- Triethoxybenzaldehyde** (WILL), 1884, A., 68.
- 1:3:5-Triethoxybenzene** (WILL and ALBRECHT), 1884, A., 1336.
- Triethoxybenzoic acid** [m.p. 100-5°] (WILL and JUNG), 1884, A., 1043; (WILL and ALBRECHT), 1884, A., 1335; (JUNG), 1886, A., 558.
[m.p. 134°] (WILL), 1884, A., 68.
- Triethoxybutane** (NEWBURY and CALKIN), 1891, A., 285.
- Triethoxyphenylpropionic acid** [m.p. 77°] (WILL), 1884, A., 68.
[m.p. 85°] (WILL and JUNG), 1884, A., 1043; (JUNG), 1886, A., 558.
- Triethoxypropane** (NEWBURY and CHAMOT), 1891, A., 285.
- Triethoxytriphenodioxazine** (KINZEL), 1892, A., 158.
- Triethylæsculetic acids**, α - and β -, and their ethyl salts (WILL), 1884, A., 68.
- Triethylallylammonium chlorides**, α - and β -chloro- (REBOUL), 1883, A., 307.
- Triethylamine**, properties of (V. HOFMANN), 1889, A., 688.
magnetic rotatory power of (PERKIN), 1889, T., 692, 729.
molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
action of, on α -bromobutyric acid (DUVILLIER), 1888, A., 249.
- Triethylamine**, action of, on diisobutylamine oxalate (COLSON), 1891, A., 377.
action of, on *s*-trichlorhydrin and on the two dichloropropylenes (REBOUL), 1883, A., 307.
and ethylic iodide, effect of various solvents on the velocity of reaction between (MENSCHUTKIN), 1890, A., 1366.
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hydrochloride, magnetic rotatory power of (PERKIN), 1889, T., 715.
platiniothiocyanate (GUARESCHI), 1892, A., 286.
- Triethylammonium bromide**, compound of thiocarbamide with (REYNOLDS), 1891, T., 390.
- Triethylisamylphosphonium chloride**, action of heat on (COLLIE), 1888, T., 721.
- Triethylbenzenes**, chlorinated (ISTRATI), 1886, A., 231, 343.
- Triethylcarbinol** (*tert.-heptylic alcohol*) (BARATAEFF and SAYTZEFF), 1887, A., 353.
- β -Triethyldaphnetic acid**, and its ethylic salt (WILL and JUNG), 1884, A., 1042.
- Triethyldaphnetic acids**, α - and β - (JUNG), 1886, A., 558.
- 2:4:5-Triethyl-*m*-diazine**, 6-amido- (WACHE), 1889, A., 684.
- Triethylenetetramine** (V. HOFMANN), 1891, A., 414.
- Triethylethylyl trisulphone** (LAVES), 1892, A., 154.
- Triethylgallic acid**, and its salts (WILL and ALBRECHT), 1884, A., 1335.
amido-, dibromo-, and nitro- (SCHIFFER), 1892, A., 715.
- Triethylhexadecylammonium iodide** (KRAFFT and MOYE), 1889, A., 689.
- Triethylhomo-*o*-phthalimide** (PULVERMACHER), 1887, A., 1111.
- Triethylhydroxylamine** (BEWAD), 1889, A., 112.
- Triethyl æconitoxalate** (CLAISEN and HORT), 1891, A., 424.
telluride, chloride and bromide (MARQUARDT and MICHAELIS), 1888, A., 1066.
chloraurorophosphite (LINDER), 1887, A., 227.
- tricyanide** (OTTO and TRÖGER), 1890, A., 726.
- n*- and *iso*-cyanurates (V. HOFMANN), 1886, A., 930.
- cyanuride** (OTTO and VOIGT), 1887, A., 1024.

- Triethylic formate** (ARNHOLD), 1887, A., 911.
o-thioacetate (LAVES), 1892, A., 612.
- Triethylidenecinchonine** (CLAUS), 1892, A., 1252.
- Triethylmelamine** (KLASON), 1886, A., 522.
- Triethylisomelamine** (V. HOFMANN), 1886, A., 42.
- Triethylorcinol**, and its ethyl ether (HERZIG and ZEISEL), 1890, A., 1405.
- Triethylisooxazole** (DUNSTAN and DYMOND), 1891, T., 432.
- Triethylphenylammonium tri- and pent-iodides** (DAFERT), 1883, A., 979.
- Triethylphosphine arsenious bromide** (LANDAU), 1889, A., 211.
- Triethylpropylphosphonium chloride**, action of heat on (COLLIE), 1888, T., 720.
- Triethylpyrogallocarboxylic acid** (WILL and JUNG), 1884, A., 1043; (WILL and ALBRECHT), 1884, A., 1335; (JUNG), 1886, A., 558.
- Triethylpyrogallol**, amido- and nitro- (SCHIEFFER), 1892, A., 716.
- Triethylresorcinol**, action of nitrous acid on (KRAUS), 1892, A., 41.
 and its ethyl ether (HERZIG and ZEISEL), 1890, A., 1404.
- Triethylsulphine salts**, preparation of (MASSON and KIRKLAND), 1889, T., 135; P., 20.
 molecular refractive energy of (NASINI and COSTA), 1891, A., 1305.
 bromide, formation of (OTTO and RÜSSING), 1886, A., 861.
 iodide, conversion of, into trimethylsulphine iodide (KLINGER and MAASSEN), 1889, A., 1135.
- Triethylsulphonemethylmethane** (LAVES), 1892, A., 154.
- Triethylthiocarbamide salts** (NOAH), 1890, A., 1241.
- Tri Eugenyl cyanurate** (OTTO), 1887, A., 1033.
- Trifolium**, analyses of (NILSON), 1892, A., 522.
- Trigalactangeddic acid** (O'SULLIVAN), 1891, T., 1043.
- Triglycerides** of aromatic acids (FRITSCH), 1891, A., 708.
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- Trihydrazylamine** (RASCHIG), 1887, A., 112.
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- Trihydromethylenefurfuran** (LIPP), 1889, A., 845.
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- Trihydroxyanthraquinoline** (GRAEBE and PHILIPS), 1891, A., 1240.
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- 1:2:4-Trihydroxyanthraquinone**. See Purpurin.
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- Trimethylhexadecylbenzene** (KRAFFT and GÖTTIG), 1889, A., 130.
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- Trimethylhexenylammonium iodide** (MERLING), 1891, A., 1507.
- Trimethylhomophthalimide** and its derivatives (GABRIEL), 1887, A., 726.
- Trimethylhydrastylammonium iodide** (FREUND), 1889, A., 1221.
- Trimethylhydroamarine** (CLAUS), 1883, A., 203.
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- Trimethyl chloraurophosphite** (LINDET), 1887, A., 227.
- 1:2':3'-Trimethylindole** (WOLFF), 1889, A., 259.
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- Trimethylmelamine** (KLASON), 1886, A., 522.
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- Trimethylnaphthalene** (MASCHKE), 1887, A., 841.
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- o*-Trimethylphenolammonium iodide** (HANTZSCH), 1883, A., 1111.
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- Trimethyl-*p*-phenylenediamine** (GRIMAUX and LEFÈVRE), 1891, A., 1032.
- 2:4:5-Trimethylphenylglyoxylic acid** (CLAUS), 1890, A., 981.
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- iodide** (LANGELI), 1887, A., 461; (H. and A. MALBOT), 1892, A., 1294.
- γ -iodo-** (PARTHEIL), 1890, A., 357; (SCHMIDT and PARTHEIL), 1892, A., 950.
- Trimethylisopropylammonium chloride** and hydroxide, action of heat on (COLLIE and SCHRYVER), 1890, T., 772.
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- Trimethylpropylphenylammonium iodide** (CLAUS and HOWITZ), 1884, A., 1006.
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- 2:3:4-Trimethylthiophen** (ZELINSKY), 1887, A., 921.
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- Trimethyltrimethyleneammonium bromide** (PARTHEIL), 1890, A., 357.
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- Trinaphthyl phosphates, α - and β -** (HEIM), 1883, A., 1108.
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- Triphenylacetic acid**, and its sulpho-derivative (ELBS and TÖLLE), 1886, A., 352.
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- Triphenylbenzoylpropionic acid** (*oxy-lepidonic acid*) (JAPP and KLINGEMANN), 1889, P., 139; 1890, T., 690.
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- Triphenylbutyrolactone** (JAPP and KLINGEMANN), 1889, P., 138; 1890, T., 680.
- Triphenylcarbamide**, *m-* and *p*-nitro- (JELLMANN and BONHÖFFER), 1887, A., 936.
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- Triphenylcarbinol**, synthesis of (ELBS), 1883, A., 1000.
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- Triphenylcarbinolcarboxylic acids** (v. HEMILIAN), 1884, A., 323.
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- Triphenylcarbinyl bromide**. See Triphenylmethane, bromo-.
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- Triphenylcarbinyl *mono-* and *di-* methylamine** and their iodine-compounds (v. HEMILIAN and SILBERSTEIN), 1884, A., 1033.
- Triphenylcrotonolactone**, oxidation, reduction and chemical reactions of (JAPP and KLINGEMANN), 1889, P., 137; 1890, T., 678.
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- 2:4:5-Triphenyl-*m*-diazine**, 6-amido- (WACHE), 1889, A., 684.
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- Triphenyldiethyl-*d*/thiobiuret** (BILLETER and STROHL), 1888, A., 365.
- Triphenyldiguanide** (RATHE and OPPENHEIM), 1890, A., 1126.
- Triphenyldimethylamidophosphine** (SCHENK and MICHAELIS), 1888, A., 835.
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- Triphenylethane** (COMBES), 1884, A., 837.
- Triphenylethylenyltrisulphone** (LAVES), 1892, A., 612.
- Triphenylethophenazonium hydroxide**, amido- (KEHEMANN and MESSINGER), 1892, A., 1109.

- Triphenylethylamine**, and its hydrochloride (ELBS), 1884, A., 1031.
- Triphenylethylenesemithiocarbazide** (BURCHARD), 1890, A., 251.
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- 3:3:5-Triphenyl-1-ethylpyrroline** (JAPP and KLINGEMANN), 1890, T., 704.
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- β -nitro-, dicyanide (HIRSCH), 1888, A., 947.
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- 1:2:3-Triphenyl-1:2-hydronaphthazonium hydroxide** (FISCHER and BUSCH), 1891, A., 1109.
- Triphenyl γ hydroxybutyric acid** JAPP and KLINGEMANN, 1889, P., 178; 1890, T., 680.
- $\alpha\beta$ -Triphenyl- γ -hydroxypropylidene-acetethylamide and -acetic acid** (COHN), 1892, A., 484.
- Triphenylic phosphate, *tr*-nitro** (RAPPE), 1884, A., 1338.
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- bromo-, action of, on ethylic sodium-malonate (HENSELSON), 1886, P., 251; 1887, T., 224.
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- Triphenylmethane**, bromo-, derivatives of (ALLEN and KÖLLIKER), 1885, A., 655; (KÖLLIKER), 1885, A., 990.
- o*-cyano- (DRORY), 1891, A., 1461.
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- Triphenylmethaneanhydrocarboxylic acid** (V. HEMILIAN), 1884, A., 323.
- Triphenylmethane-*o*-carboxylic acid** (GRESLY), 1886, A., 1035; (FISCHER and FRANKEL), 1888, A., 56; (DRORY), 1891, A., 1462.
- Triphenylmethane-2:4-dicarboxylic acid** (V. HEMILIAN), 1887, A., 267.
- Triphenylmethane-3:4-dicarboxylic acid** (V. HEMILIAN), 1884, A., 323.
- Triphenylmethane-group**, dyes of the (NÖLTING), 1891, A., 727; 1892, A., 187.
- Triphenylmethylaniline** (ELBS), 1884, A., 1031; (V. HEMILIAN and SILBERSTEIN), 1884, A., 1033.
- nitroso- (ELBS), 1884, A., 1031.
- Triphenylmethylanilinesulphonic acid** (ELBS), 1884, A., 1032.
- Triphenylmethylazimethylene** (CURTIUS and RAUTERBERG), 1891, A., 1360.
- Triphenylmethylbenzylamine** and its hydrochloride (ELBS), 1884, A., 1031.
- Triphenylmethylpropyl*d*ithiobiuret** (BILLETER and STROHL), 1888, A., 365.
- Triphenylmethylpyrazine** (KNORR and LAUBMANN), 1888, A., 725.
- 3:3:5-Triphenyl-1-methylpyrrolidone** (JAPP and KLINGEMANN), 1889, P., 140; 1890, T., 701.
- 3:3:5-Triphenyl-1-methylpyrrolone** (JAPP and KLINGEMANN), 1889, P., 140; 1890, T., 698.
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- Triphenylmethyl-*p*-toluidine**, nitroso- (WITTICH), 1884, A., 1032.
- Triphenylmethyltoluidines** (WITTICH), 1884, A., 1032.
- Triphenyl- β -naphthyl-carbamide** and -thiocarbamide (PASCHKOWETZKY), 1892, A., 165, 167.
- Triphenyltrinitrophenylglucinel** (JACKSON and WARREN), 1891, A., 1026.
- Triphenylosotriazone** (AUWERS and MEYER), 1889, A., 51.
- Triphenylphloroglucinel** (HODGKINSON), 1886, P., 189.
- Triphenylphosphine** and its derivatives (MICHAELIS and V. SODEN), 1885, A., 1134.
- Triphenylphosphine oxide**, nitro- and amido- (MICHAELIS and V. SODEN), 1884, A., 1180.
- Triphenylphosphoryl dibromide** (NOACK), 1883, A., 736.
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- 1:2:3-Triphenylpropane** (CLAUS and MERCKLIN), 1886, A., 143.
- Triphenylpropenyldisulphone sulphide** (OTTO and RÖSSING), 1891, A., 568.
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- β -Triphenylpropionic acid** and its salts (HENDERSON), 1887, T., 226; A., 671.
- Triphenylpropylpyrrolone**, crystallography of (TUTTON), 1890, T., 738.
- 1:3:5-Triphenylpyrazole** and its derivatives (KNORR and LAUBMANN), 1888, A., 725.
- methiodide (KNORR and LAUBMANN), 1888, A., 725.
- 1:4:5-Triphenylpyrazole** (JAPP and KLINGEMANN), 1889, P., 141; 1890, T., 710.
- 1:3:5-Triphenylpyrazoline** and its derivatives (KNORR and LAUBMANN), 1888, A., 725.
- 2:4:6-Triphenylpyridine** (RIEHM), 1887, A., 599.
- 3:3:5-Triphenylpyrrolidone** (JAPP and KLINGEMANN), 1889, P., 140; 1890, T., 683, 696.
- 1:2:5-Triphenylpyrroline** (BAUMANN), 1887, A., 736; (KAPF and PAAL), 1889, A., 149.
- 2:3:5-Triphenylpyrroline** (SMITH), 1890, T., 645.
- 1:4:5-Triphenylpyrrolone** (KLINGEMANN), 1892, A., 1003.
- 3:3:5-Triphenylpyrrolone** and its reduction (JAPP and KLINGEMANN), 1889, P., 140; 1890, T., 694.
- and its derivatives, crystallography of (TUTTON), 1890, T., 720.
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- Triphenyl-silicol** and -silicon chloride (POLIS), 1886, A., 619.
- Triphenylstibine** and its derivatives (MICHAELIS and REESE), 1886, A., 885.
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- Triphenylsulphonemethylmethane** (LAVES), 1892, A., 612.
- Triphenylsulphonepropane** (STUEFFER), 1890, A., 988.
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- Triphenyltetrahydropyrazine** (GARZINO), 1892, A., 634.
- Triphenylthiammeline** (RATHKE), 1887, A., 662; (RATHKE and OPPENHEIM), 1890, A., 1126.
- Triphenylthiazole** (HUBACHER), 1891, A., 222.
- Triphenylthiocarbamide** (GEBHARDT), 1884, A., 1321.
- Triphenylthiophen** (SMITH), 1890, T., 647.
- Triphenylisotriazone** (AUWERS and SIEGFELD), 1892, A., 1471.
- Triphenyltrisodiophloroglucinol** (HODGKINSON), 1886, P., 189.
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- Tripropylamine** (VINCENT), 1886, A., 1005.
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- Triisopropylidene trisulphone** (BAUMANN and FROMM), 1890, A., 26.
- Tripyridine disilicotetrafluoride** (COMEY and SMITH), 1888, A., 1283.
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 5-bromo- (NÖLTING and KOHN), 1886, A., 356; 1889, A., 611.
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p-Xylene-2-sulphonic chloride, 3:6-dibromo- (MOODY and NICHOLSON), 1890, T., 977.
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 amido-, and its hydrochloride (PFAFF), 1883, A., 918.
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o-3-Xylenol (TÖHL), 1886, A., 57; (NÖLTING and FOREL), 1886, A., 58.
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o-4-Xylenol, 3:5-dinitro- (NÖLTING and PICK), 1889, A., 129.
m-2-Xylenol (JACOBSEN), 1889, A., 41.
m-4-Xylenol (SMITH, COUTTS and BROTHERS), 1886, T., 23; (JACOBSEN), 1886, A., 345.
m-5-Xylenol (TÖHL), 1885, A., 522.
p-2-Xylenol, 5-amido- (SUTKOWSKI), 1887, A., 668.

- o*-Xylene, Me:Me=1:2; *m*-xylene, Me:Me=1:3; *p*-xylene, Me:Me=1:4.
- p*-2-Xylenol, ω -dibromo- (ADAM), 1884, A., 1329.
- 5-nitro-, ethyl salt of (NÖLTING, WITT and FOREL), 1886, A., 58.
- 5-nitroso-. See *p*-Xyloquinoneoxime.
- m*-4-Xylenol-5-sulphonic acid (LIMPRICHT), 1885, A., 1234; (SARTIG), 1886, A., 153.
- m*-4-Xylenol-6-sulphonic acid, 2- or 5-nitro- (LIMPRICHT), 1885, A., 1234; (SARTIG), 1886, A., 154.
- Xylenyl-amidoxime and its derivatives, -azoxime-ethenyl, -imidoximecarbonyl and -uramidoxime (OPPENHEIMER), 1890, A., 49.
- Xylic (*xylylic*) acids. See Dimethylbenzoic acids.
- m*-Xylidene-aniline and -phenylhydrazine (BORNEMANN), 1884, A., 1162.
- Xylidine, commercial (STAEDEL and HÖLZ), 1886, A., 145.
- zinc chloride (MARTINI), 1892, A., 1455.
- hydrobromides (STAEDEL), 1883, A., 578.
- hydrochlorides, action of methylic alcohol on (NÖLTING and FOREL), 1886, A., 58.
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- o*-3-Xylidine (*amidoxylene*) (TÖHL), 1886, A., 57; (NÖLTING and PICK), 1889, A., 131; (MENTON), 1891, A., 1203.
- salts of (TÖHL), 1886, A., 57.
- 4:5-dibromo- (TÖHL), 1886, A., 57.
- o*-4-Xylidine and its derivatives (JACOBSEN), 1884, A., 737; (MÜLLER), 1887, A., 663.
- 5-chloro- (CLAUS), 1892, A., 1202.
- m*-2-Xylidine, nitration of (NÖLTING and STOECKLIN), 1891, A., 692.
- m*-4-Xylidine (MÜLLER), 1887, A., 663.
- action of benzylic chloride on (JABLINGONNET), 1892, A., 314, 1320.
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- anhydro-bases of (GUDEMAN), 1888, A., 1282.
- compounds of metallic sulphides with (DENIGÈS), 1891, A., 1031.
- 2-nitro-, and its acetyl derivative (GREVINGK), 1885, A., 144.
- m*-5-Xylidine (TÖHL), 1885, A., 522.
- methylation of (LIMPACH), 1888, A., 464.
- carbamate, cyanate and cyanurate (FRENZEL), 1889, A., 241.
- p*-2-Xylidine (NÖLTING, WITT and FOREL), 1886, A., 57; (PFLUG), 1890, A., 606.
- preparation and properties of (WITT), 1889, A., 603.
- diamido- (WITT, NÖLTING and FOREL), 1889, A., 604.
- 3:5-dibromo- (NÖLTING and KOHN), 1886, A., 356.
- 5-chloro- (KLUGE), 1885, A., 1208.
- 5-nitro- (NÖLTING, WITT and FOREL), 1886, A., 58; (WITT), 1889, A., 604.
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- o*-Xylidines (JACOBSEN), 1884, A., 737; 1886, A., 235.
- nitration of (NÖLTING and STOECKLIN), 1891, A., 692.
- m*-Xylidines, action of diazo-*p*-nitrobenzene salts on (MELDOLA), 1883, T., 428.
- Xylidines, consecutive (WROBLEWSKI), 1886, A., 145.
- six isomeric and some of their derivatives (NÖLTING and FOREL), 1885, A., 381; 1886, A., 58.
- separation of (WITT), 1886, A., 699.
- m*-4-Xylidine-5-sulphonic acid (NÖLTING and KOHN), 1889, A., 611.
- constitution of (PANAJOTOW), 1887, A., 382.
- m*-4-Xylidine-5(?) -sulphonic acid and its salts (JACOBSEN and LEDDERBOGE), 1883, A., 593; (SARTIG), 1886, A., 153.
- m*-4-Xylidine-6-sulphonic acid and its salts (SARTIG), 1886, A., 153; (NÖLTING and KOHN), 1886, A., 355.
- 2- or 5-nitro- (LIMPRICHT), 1885, A., 1234.
- p*-2-Xylidine-5- and -6-sulphonic acids (NÖLTING and KOHN), 1886, A., 355; 1889, A., 611.
- m*-Xyldioethylphthalimide. See Xylyl-amidoethylphthalimide.
- Xylitol (FISCHER and STAHEL), 1891, A., 668; (BERTRAND), 1892, A., 28.
- constitution of (BERTRAND), 1892, A., 29.
- pentanitrate (BERTRAND), 1892, A., 29.
- m*-Xylobenzaldehyde (HINRICHSSEN), 1889, A., 131, 391.
- m*-Xylo-benzylamine and -benzylic alcohol (HINRICHSSEN), 1889, A., 131.
- Xylonic acid (ALLEN and TOLLENS), 1891, A., 668.
- o*-Xylo-3:6-quinol (*dimethylquinol*) (NÖLTING and FOREL), 1886, A., 58.

o-Xylene, Me:Me=1:2; *m*-xylene, Me:Me=1:3; *p*-xylene, Me:Me=1:4.

***o*-Xylo-3:6-quinol** (*dimethylquinol*)
4:5-*dichloro*- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1201.

***m*-Xylo-2:5-quinol** (NÖLTING and FOREL), 1886, A., 58.

4:6-*dichloro*- (CLAUS and RUNSCHKE), 1890, A., 1247.

***p*-Xylo-2:5-quinol** (NIETZKI), 1883, A., 467.

oxidation of (HEYMANN and KOENIGS), 1887, A., 1035.

Xyloquinoline. See Dimethylquinoline.

***o*-Xylo-3:6-quinone** (1:2-*dimethyl-3:6-quinone*) (NÖLTING and FOREL), 1885, A., 382; 1886, A., 58.

4:5-*dichloro*- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1201.

***m*-Xylo-2:5-quinone** (NÖLTING and FOREL), 1885, A., 382; 1886, A., 58.

4:6-*dichloro*- (CLAUS and RUNSCHKE), 1890, A., 1247.

***p*-Xylo-2:5-quinone** (*phlorone*) and its derivatives (NIETZKI), 1883, A., 467; (NÖLTING and FOREL), 1885, A., 382; (GOLDSCHMIDT and SCHMID), 1885, A., 775.

***p*-Xylo-2:5-quinonedioxime** (SUTKOWSKI), 1887, A., 668; (PFLUG), 1890, A., 607.

***p*-Xylo-2:5-quinoneoxime** (5-*nitroso-p-2-xylenol*) and its derivatives (GOLDSCHMIDT and SCHMID), 1885, A., 775; (SUTKOWSKI), 1887, A., 667; (PFLUG), 1890, A., 607.

***m*-Xyl-4:6-oreinol** (*dihydroxyxylene*) (PFAFF), 1883, A., 918; (v. KOSTANECKI), 1887, A., 39.

***m*-Xyl-4:6-oreinol-5-carboxylic acid** (v. KOSTANECKI), 1887, A., 39.

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Xylosecarboxylic acid (FISCHER), 1890, A., 1399.

***o*-Xylyl isobutylbenzyl ketone** (WEGE), 1892, A., 338.

***m*-Xylyl ethyl ketone** (CLAUS), 1891, A., 564.

***p*-Xylyl ethyl ketone** (CLAUS and FICKERT), 1887, A., 253.

***o*-Xylyl methyl ketone** (CLAUS and CLAUSSEN), 1886, A., 463; (CLAUS), 1890, A., 770.

5-chloro-, and derivatives (CLAUS), 1891, A., 912; 1892, A., 1201.

***m*-Xylyl methyl ketone** (CLAUS and GÄRTNER), 1886, A., 463.

6-amido- (CLAUS), 1890, A., 980.

***m*-Xylyl methyl ketone**, 2- and 6-nitro- and 2:6-*dinitro*- (CLAUS), 1890, A., 980.

***p*-Xylyl methyl ketone** and its derivatives (CLAUS and WOLLNER), 1885, A., 1136; (ERRERA), 1891, A., 1053.

5-bromo- (SCHÖPFF), 1892, A., 338.

***m*-Xylyl nitrosomethyl ketone**, 2:6-*dinitro*- (CLAUS), 1890, A., 981.

***m*-Xylyl pentadecyl ketone** (KRAFFT), 1888, A., 1087.

***o*-Xylylacetamide** (STRASSMANN), 1888, A., 474.

Xylyl acetic acid (*dimethylphenylacetic acid*), 4-nitro-, and its salts (WISPEK), 1883, A., 1096.

***m*-Xylyl acetic acid** (POPPE), 1890, A., 499.

***o*-Xylyl amide** (HARRIS), 1890, A., 158.

***m*-Xylyl amide** (HARRIS), 1890, A., 158; (GATTERMANN and ROSSOLYMO), 1890, A., 975.

***α*-*m*-Xylylamidoacetic acid** and its ether (EHRlich), 1883, A., 594.

Xylylamidoacetoxylidide (EHRlich), 1883, A., 594.

***m*-Xylylamidoethylphthalimide** (NEWMAN), 1891, A., 1208.

***m*-Xylylamidomethane** (HINRICHSSEN), 1889, A., 131, 391.

Xylylamine. See Methylbenzylamine and Xylidine.

Xylyl- and isoxylyl-anilide (LEUCKART), 1890, A., 759.

Xylylantipyryne (KLAUBER), 1891, A., 1363.

***m*-Xylylbenzamidomethane** (HINRICHSSEN), 1889, A., 391.

Xylylbutane. See *Isobutylxylene*.

***o*-Xylyl carbamide** (STRASSMANN), 1888, A., 474.

***m*-Xylyl carbamide** (BRÖMME), 1888, A., 1296; (FRENTZEL), 1889, A., 241.

***m*-Xylyl carbinol** (HINRICHSSEN), 1889, A., 131.

***p*-Xylyl-*p*-cymylphenylmethane** (ELBS), 1887, A., 942.

Xylyldiethylphosphine (CZIMATIS), 1883, A., 58.

1-*m*-Xylyl-2:3-dimethylpyrazolone (KLAUBER), 1891, A., 1363.

Xylyldiphenylamides (LELLMANN and BONHÖFFER), 1887, A., 935.

***o*-Xylylene diethyl ether** (LESER), 1884, A., 1313.

***p*-Xylylenebismethylhydroxy-*m*-diazine** (GLOCK), 1888, A., 1291.

***o*-Xylylene-3:6-diamine** (*amidoxyphenyl*), 4:5-*dichloro*- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1201.

o-Xylene, Me:Me = 1:2 ; *m*-xylene, Me:Me = 1:3 ; *p*-xylene, Me:Me = 1:4.

- o*-Xylylene- ω -diamine and its salts (STRASSMANN), 1888, A., 475.
m-Xylylene-2:4- and -4:6-diamine (GREVINGK), 1885, A., 145.
m-Xylylene-4:6-diamine, reactions of (WITT), 1888, A., 1186.
m-Xylylene-5:6-diamine (JACOBSEN), 1889, A., 39.
m-Xylylene- ω -diamine (BRÖMME), 1888, A., 1296.
p-Xylylene-2:5-diamine (NÖLTING, WITT and FOREL), 1886, A., 58; (SUTKOWSKI), 1887, A., 668.
Xylylenediaminesulphonic acid (LIMPRICHT), 1885, A., 1234.
o-Xylylenedianilide (LESER), 1884, A., 1313.
Xylylenedimalonic acids, *m*- and *p*- (KIPPING), 1888, T., 31, 38.
m-Xylylenedipthalimide (BRÖMME), 1888, A., 1296.
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o-Xylylenephthalimide and chloro- (STRASSMANN), 1888, A., 475.
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o-Xylylenic dibromide (PERKIN), 1888, T., 5.
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o-Xylylenic sulphide (LESER), 1884, A., 1313.
m-Xylylethylenediamine (NEWMAN), 1891, A., 1208.
 α -*m*-Xylylethylamidoacetic acid (EHRICH), 1883, A., 594.
o-Xylylethyl-dichlorodimalonic acid, synthesis of (V. BAAYER and PERKIN), 1884, A., 908.
m-Xylylfurfuryl-carbamide and -thio-carbamide (DEUTZMANN), 1892, A., 43.
m-Xylylglycollic acid (POPPE), 1890, A., 499.
 ν -*m*-Xylyl-glyoxaline, -glyoxalyl- μ -mercaptan and -glyoxalyl- μ -methylic sulphide (MARCKWALD), 1892, A., 1329.
o-Xylylglyoxylic acid (V. BUCHKA and IRISH), 1887, A., 826.
m-Xylylglyoxylic acid (CLAUS and GÄRTNER), 1886, A., 463; (CLAUS), 1891, A., 564.
6-nitro-, 2:6-dinitro- and -dinitroso- (CLAUS), 1890, A., 979.
p-Xylylglyoxylic acid and its salts (CLAUS and WOLLNER), 1885, A., 1136.
m-Xylylhydrazine (KLAUBER), 1890, A., 1410; 1891, A., 1362.
Xylylhydrazinesulphonic acid, sodium salt of (KLAUBER), 1890, A., 1410.
m-Xylylhydroxyacetic acid (CLAUS), 1890, A., 979; 1891, A., 564.
p-Xylylhydroxyacetic acid (CLAUS and WOLLNER), 1885, A., 1137; (CLAUS), 1891, A., 564.
o-Xylylic cyanide (V. BAAYER and PAPE), 1884, A., 898.
m-Xylylic ethylxanthate (LEUCKART), 1890, A., 603.
p-Xylylic phosphorus chlorides (WELLER), 1887, A., 824; 1888, A., 835.
Xylylidenediamine (OPPENHEIMER), 1886, A., 547.
Xylylimidazole. See Xylylglyoxaline.
“*p*-Xylyl- β -ketonic acid” (CLAUS and FICKERT), 1887, A., 253.
“*p*-Xylyl- γ -ketonic acid” (CLAUS and MURTFELD), 1887, A., 827.
m-Xylyl-malonanilide and -malonic acid (POPPE), 1890, A., 498.
o-Xylylmethylcarbinol (CLAUS), 1890, A., 770.
m-Xylylmethylcarbinol (CLAUS), 1890, A., 979.
Xylylmethylnitrosamine (PFLUG), 1890, A., 607.
1-*m*-Xylyl-3-methylpyrazolone (KLAUBER), 1891, A., 1363.
o-Xylylmethylsulphine iodide (HJELT), 1890, A., 135.
Xylylmethylthiohydantoin (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
m-Xylyloxamic acid (*oxalylylylidic acid*) and its inner anhydride (MAUTHNER and SUIDA), 1889, A., 140.
Xylylphosphinic acids, α -*m*- and β -*m*- (WELLER), 1887, A., 825.
p-Xylyl-phosphinous acid and -phosphonic acid and its nitro-derivative (WELLER), 1888, A., 835.
o-Xylyl-phthalamic acid and -phthalimide (STRASSMANN), 1888, A., 474.
m-Xylyl-phthalamic acid and phthalimide (BRÖMME), 1888, A., 1295.
m-Xylylphthalide (GRESLY), 1886, A., 1029.
p-Xylylphthalimidine (RUHEMANN), 1892, A., 474.
m-Xylyltartronic acid (POPPE), 1890, A., 499.

o-Xylene, Me:Me=1:2; *m*-xylene, Me:Me=1:3; *p*-xylene, Me:Me=1:4.

m-Xylylthiocarbamide (BRÖMME), 1888, A., 1296.

o-Xylylthiocarbimide (STRASSMANN), 1888, A., 475.

m-Xylylthiocarbimide (BRÖMME), 1888, A., 1296.

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Yeast, nuclein in (STUTZER), 1883, A., 1166; (LIEBERMANN), 1888, A., 510.

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beer- (MARTINAND), 1889, A., 181.

fermentative strength of, in distillery mash (KRUIS), 1884, A., 939.

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formation of glycogen in (LAURENT), 1888, A., 981.

degeneration of (BUNGNER), 1885, A., 417.

elliptical, effect of copper salts on (ROMMIER), 1890, A., 814.

products of fermentation of sugar by (CLAUDON and MORIN), 1887, A., 714, 746.

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wine, preparation of (ROMMIER), 1890, A., 1179.

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Yeast liquor, composition of (O'SULLIVAN and TOMPSON), 1890, T., 878.

Yeast sowing, the favourable temperature for (STENGLEIN), 1884, A., 789.

Yeast-albuminoid (O'SULLIVAN and TOMPSON), 1890, T., 886, 893.

Yeast-cells, effects of varying environment on (BROWN), 1892, T., 369.

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Yeast-poisons (SCHULTZ), 1889, A., 181.

Yellows, coal-tar, toxic effect of (CAZENEUVE and LÉPINE), 1886, A., 273.

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- Yew tree**, alkaloid of (HILGER and BRANDE), 1890, A., 65).
- Ytterbium**, spectral researches on (THALEN), 1883, A., 954.
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- Yttria**. See Yttrium sesquioxide.
- Yttria minerals** from Llano Co., Texas (HIDDEN and MACKINTOSH), 1890, A., 457.
- Yttrialite** (HIDDEN and MACKINTOSH), 1890, A., 458.
- Yttrium**, atomic weight of (CLEVE), 1883, A., 292.
in the sphere of Biellese syenite (COSSA), 1884, A., 158.
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and samarium, mutual extinction of the spectra of (CROOKES), 1885, A., 1025.
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- Yttrium bromide and chloride** (DUBOIN), 1888, A., 1250.
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sesquioxide (*yttria*), crystallised (DUBOIN), 1888, A., 1249.
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- potassium and sodium phosphates (DUBOIN), 1889, A., 18.
- pyrophosphate (JOHNSON), 1889, A., 757.
- silicates (DUBOIN), 1888, A., 1249.
- sodium sulphide (DUBOIN), 1888, A., 1250.
- Yttrium-earths** (BETTENDORFF), 1890, A., 851; 1891, A., 984; 1892, A., 1400.
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- Za and Z₃**, nature of (LECOQ DE BOISBAUDRAN), 1890, A., 566.
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- Z₃**, identity of the reversal spectrum of, with Crookes' fluorescence spectrum (LECOQ DE BOISBAUDRAN), 1886, A., 958.
- Zanthoxylum senegalense*. See *Xanthoxylum senegalense*.
- Zein** (CHITTENDEN and OSBORNE), 1892, A., 749.
- Zeolite** from a pyroxenic rock of Brazil (GORCEIX), 1886, A., 519.
- Zeolites** in the dolerites of Chaux-de-Bergonne, Puy-de-Dôme (GONNARD), 1884, A., 829.
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- Zero**, absolute, determination to test the validity of Person's (PICKERING), 1891, A., 519.
- Zinc**, atomic weight of (BAUBIGNY), 1884, A., 256; (MARIGNAC), 1884, A., 815; (VAN DER PLAATS), 1885, A., 348; (MORSE and BURTON), 1888, A., 1247; (GLADSTONE and HIBBERT), 1889, T., 443; P., 101.
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